

**EVERYTHING
ATARI**

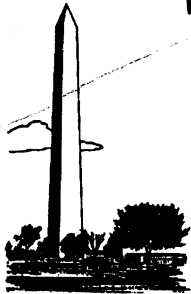
PRICE: CALL

**ANNIVERSARY TOAD COMPUTERS FIVE YEARS
SILICON**

**ALL - ENCOMPASSING
CATALOG OF EVERYTHING**

AUTUMN ♦ WINTER

WAACE AtariFest '91



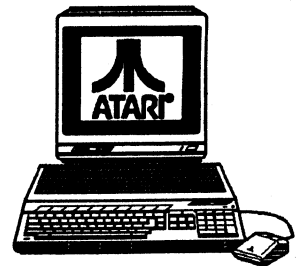
October 12 & 13, 1991

10 AM till 5 PM (both days)

Sheraton Reston Hotel

11810 Sunrise Valley Drive

Reston, VA 22091



The **Washington Area Atari Computer Enthusiasts** will present the eight annual **WAACE AtariFest** on weekend of October 11 - 13, 1991. This will be the second year that the fest will be held at the **Sheraton Reston Hotel** located in suburban Reston, VA (outside of Washington, D.C., minutes from Dulles Airport).

Featuring...

Shopping bargains from dozens of vendors, exciting new Software and Hardware Products, Special Interest Demonstration Rooms, Seminars, User Groups, Door Prizes and more...

Special Events

Friday Evening, October 11th: **MIDI Concert** free to the public, featuring **David Kaufman's Midi Machine**.

Saturday Evening, October 12th: **The WAACE Banquet** at 8 PM with guest speaker **Nathan Potechin** of **ISD Marketing** and the **1991 Current Notes "Author of the Year" Award** presentation, to be preceeded by a poolside (weather permitting) social hour at 7 PM.

Admission: One day passes **\$7**, Two day passes **\$10**, children under 12 are free with paying adult. Bring a copy of this ad to receive a **\$1** discount off a one day pass or a **\$2** discount off a two day pass.

Hotel Rooms: are available at a special rate of **\$59** single/double occupancy & **\$66** triple/quad occupancy (plus VA sales tax). You must mention that you are attending the **AtariFest** to reserve a room at these rates, which are valid from October 10th through 13th. Registered hotel guests will receive a free one day pass to the next day of the fest for each night of room rental, **limit two free passes per room**. For room reservations please call the **Sheraton Reston Hotel** at (703) 620-9000 (voice) or (703) 860-1594 (FAX).

Vendors: Booth space is available now! Please contact the Vendor Coordinator, John Barnes for booth availability and rates at (301) 652-0667 or GENie: J.D.BARNES.

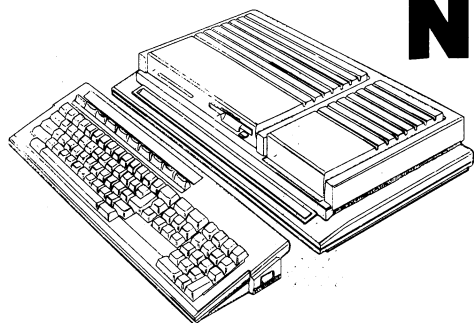
Banquet Tickets: may be ordered from the Banquet Coordinator, Tom Stoddard at 1039 S. Ironwood Road Sterling, Virginia 22170. Banquet Tickets are \$25. Please indicate an entre choice of Pork Loin Vindaloo or Chicken Italia. Vegetarian menu available by special request. The banquet is a non-smoking event.

Directions: From the Capital Beltway (I495) in Virginia, take Route 267 (Dulles Toll Road) west to Wiehle Exit, Go left, turn right on Sunrise Valley Drive, the hotel will be on the left. By Air, fly to **Dulles Airport**. Call for hotel shuttle. Please call the hotel for **Metro** access.

For more information: please contact the Chairman Charles Smeton at (301) 465-8628, GENie: C.S.SMETON, CIS: 73047,2565, FNET: Charles Smeton, Node 500 or by U.S. Mail at P.O. Box 0122 Columbia, MD 21045-0122.

Please look for our ads in the following Atari related publications: Current Notes, Atari Interface Magazine, Atari Explorer, AtariUser and ST Informer.

Now That's Powerful!



☛ The **ST** is a powerful machine. It's been one of the best computer values since 1985 when it was first introduced. Now, **Atari** has some even more powerful machines: the **Mega STE** and the **TT030**. The **Mega STE** is a 68000 based 16MHz machine twice as fast as the new Macintosh Classic. The **TT030** is a **68030 based 32MHz** machine. Executing instructions more than four times as fast as the original **ST**, the **TT030** rivals such machines as the Mac IIci and IIx and Amiga 3000. Examine their impressive list of features, and you'll be hungry for even more power! You must qualify to buy. Ask about the **toadally cool One Year Extended Warranty** for only \$49.95! The **Mega STE** and **TT030** are available **now** to those who wait. So be sure to **order soon**.

Atari TT030 Computer

- 68030 running at 32MHz with cache
- 68882 Math Coprocessor
- New GEM Desktop
- 1280 x 960 19" Monochrome
- 640 x 480 16 of 4096 Color Mode
- 320 x 480 256 of 4096 Color Mode
- LAN Connector
- VME Card Slot
- 720K Floppy Drive

Pricing

- **TT030** 2MB No HD \$1499
- **PTC1426** Color Monitor \$479
- **TTM195** 19" Mono Mon. \$999
- **2MB** ST RAM \$299
- **4MB** TT RAM \$549
- **8MB** ST RAM \$799
- **16MB** TT RAM \$1399
- **50MB** Internal HD \$279
- **105MB** Internal HD \$389

Mega STE

- 16MHz 68000 with cache
- 68881 Coprocessor Socket
- New GEM Desktop
- Built In MIDI Ports
- Supports All ST Resolutions
- VME Card Slot
- Built-In Hard Disk Optional
- Built-In 720K Floppy Drive
- LAN Support

Pricing

- **Mega STE1** \$999
- **No Hard Disk**
- **Mega STE2** \$1299
- **50MB Hard Disk**
- **Mega STE4** \$1449
- **50MB Hard Disk**
- **Hard Disk Kit** Call
- **For Mega STE1**
- **Internal HD's** Call

The Atari STE Tribe

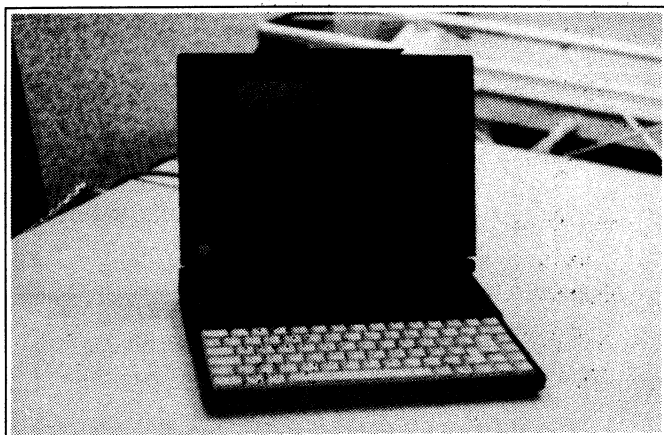
☛ At these prices, the **Atari STE Computer** might as well be free! Name one other computer you can buy with **4MB** in it for **under \$600** and we'll drink napalm. The **STE** is an enhancement of the **ST Computer** that made **Atari** great! It has all the features of the standard **1040ST** — built in double sided disk drive, built in keyboard, included mouse, MIDI ports, and more. But they've gone and upped the ante in the **STE**! They've added an impressive list of features, including:

- A 4096 Color Palette (16 Levels of Same Color)
- 8-Bit Pulse Code Modulated Stereo Digital Sound
- SIMM Upgradeable — No RAM Board Required
- BLITTER Graphics Coprocessor Included Standard
- Accepts External GENLOCK Synchronization
- Two Analog Joystick, Paddle, or Light Gun Ports
- Built in MIDI, Printer, Serial, and Hard Disk Ports
- Built-in Operating System ROMs and 720K Disk Drive

Killer
Performance!



- ☐ **Atari STE 512K** \$349
- ☐ **Atari STE 1MB** \$399
- ☐ **Atari STE 2MB** \$499
- ☐ **Atari STE 4MB** \$599



The New **ST Notebook** Computer — Düsseldorf Atari Messe, August '91

It All Started with Stacy

☛ In 1989, Atari introduced the **Stacy** computer — the first ever **ST Laptop Computer**. It's not bad — it has a built in hard disk, floppy drive, MIDI ports, 640 x 400 monochrome display and 1, 2 or 4 megabytes of memory. Now there's the **ST Notebook**. It's a thinner, sleeker, newer **ST portable**, only one inch thick and lighter than solid vacuum. It has the ability to run on batteries (for 5 to 10 hours), something the **Stacy** really could have used. The **ST Notebook** will be available shortly, so hurry up and place your orders. We do not have official pricing yet, but we speculate that it'll be between \$1000 and \$1500. Call for more information — we should know more details by the time you receive this (and we may even tell you some).

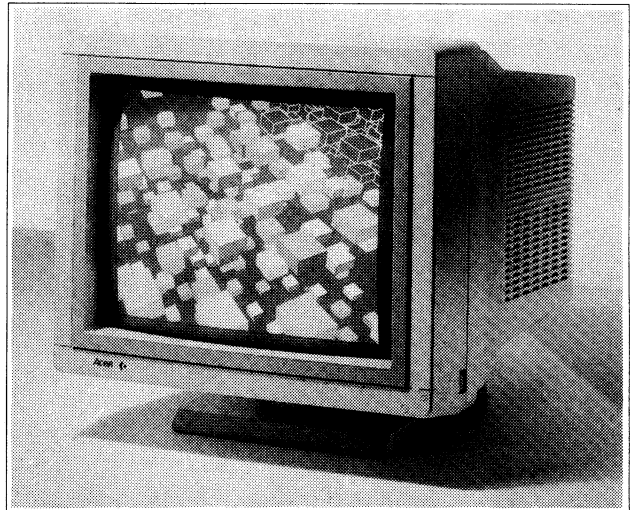
**See Boss Sneak Previews
Throughout This Catalog!**

ST Monitors

(800) 448-8623 Orders

Multisync Means ONE Monitor

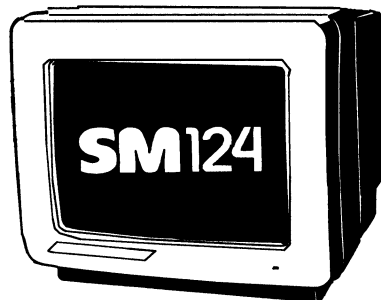
☛ It happens to every ST owner at one time or another: you track down a piece of software you've been desperately searching for and you learn that it will only run on whichever monitor you don't have. You want to run **Calamus**, because you're sure that it's the best **DTP** program, but it only runs in monochrome. You want to buy **Space Ace**, but it only runs in color. Shouldn't there be a way to take advantage of all the features of color and monochrome using only one monitor? Well, a couple of years ago, people realized that monitors which could support multiple scanning frequencies (multisync monitors) could be used in both monochrome and color on the ST. The only problem with this new found fun was that it cost well over \$550 to get a multisync monitor and connect it to your ST. You could buy both monitors for \$100 less! But now, with our special Toad deal on the **Acer 7015** and the **TOADSWITCH-M**, you can get everything you need to use a multisync on your ST for only \$468. That's more than \$30 less than the cost of both monitors, and you get the convenience and desk-space of having only one monitor. It's just another great **Toad Deal!**



Acer 7015 Multisync ST/TT Monitor — \$409
Toadswitch-M Multisync Controller — \$59

The Atari SC1435 & SM124

☛ For those of you who are buying a new computer, satisfied with just one monitor, or don't feel like plunking down the money for a multisync, you might consider the **Atari SC1435** or the **Atari SM124**. The **SC1435** is Atari's latest ST monitor, and it's specifically designed for Atari's new **1040STE** and **Mega STE** computers. It's biggest feature is its size - 14" diagonally and its handy ability to handle stereo sound. The picture is sharp and bright on its glossy glass screen. The **Atari SM124** monochrome monitor is one of the best monochromatic displays available today. With a **70Hz** refresh rate, its dark black on paper white display makes it ideal for word processing, desktop publishing, music, programming and more! The **SM124** is also perfect for beginners because of its low cost and high readability.



**Atari
SM124
\$159**

Atari SC1435 — \$339
Full 2 Year Monitor Warranty
For Any Monitor On This Page — \$99!

Magnavox 1CM135

☛ An alternative to the **Atari SC1435** is this **Magnavox** monitor. The **1CM135** was designed and is manufactured by **Philips**, the same company that makes the **1435**. We are able to bring you this terrific monitor for only \$319 - that includes the **Atari** connection cable! Advantages of the **1CM135** include its ability to hook up to a composite video source (**800XL/130XE/C64**), attach to a TTL RGB output (such as **CGA**), and even to a Super-VHS VCR. The **1CM135** will do stereo sound and has a 14" screen, too!

For \$319, Limited Time Only!

Toadswitch

☛ Often, like it or not, ST owners do end up with **two monitors**. When you do, the **Toadswitch** is for you. It's a high quality monitor switchbox that uses a **disconnect-then-connect** switching method and it comes with the **cable you need to connect it**. No other switch of this quality is available, but quantities are limited. Order now to be sure you get one!

Our Own Toadswitch - Only \$39!

Timeworks Desktop Publisher

One of the **original** desktop publishing programs for the ST! Great for beginners! Includes several fonts, drivers for most popular printers including **dot matrix, inkjet and laser printers**. Allows easy mixing of text and graphics for creating newsletters, brochures, flyers, **death** announcements, and eye charts. Works on color or monochrome monitors on any ST - **even a 512K machine**. Uses the GEM interface, and it's WYSIWYG, too! Call for information on the brand new Timeworks DTP Professional, due out shortly!

Only \$64.95!

Ultrascript - ST PostScript!

PostScript is a good thing to have. For those of you who don't know, it's a powerful page description language that allows quick and clean drawing of text and graphics at any size. The only problem is **PostScript** printers are significantly more expensive than other laser printers. And laser printers are far and away more expensive than dot matrix or inkjet printers. That's why there's **Ultrascript**, a **PostScript** interpreter for the ST. It reads a **PostScript** command file and prints it out on a dot matrix, inkjet, HP-compatible or **Atari SLM804/605** laser printer. This means **better output and better fonts**. Works great with **PageStream 2.1** or **Timeworks DTP**.

Only \$119.95!

Fonts!

Several great fonts are available for **Ultrascript**. The complete **Standard 35 Postscript Font Family** is only \$79.95. **ITC Garamond** is \$59! **Lubalin Graph** - \$59 **Crescendo** - \$39

**Order
TOADAY!**

**(800)
448-TOAD!**

DTPaint - Quick Image Editing!

Ever find yourself working on a project in **Calamus** or **PageStream** and find that you've imported a graphic file which is simply screwed up? I bet you have. What a pain in the proverbial derriere it is to go out to the desktop, run **Touch-Up**, erase two dots of your image, reload your DTP program and resume. What if you could just fix your image on the fly, using a desk accessory from within **Calamus** or **PageStream**? Well, you guessed it, now you can. **DTPaint** is that desk accessory, with full editing abilities plus the ability to load **Degas** and **MacPaint** files. It even includes Mac-like editing features — the jack-knife and lasso! Say hello to greater DTP **productivity!**

DTPaint Accessory — Only \$39!

PageStream Qwikforms

This package contains over **100 ready-made** business forms, page layouts, and legal documents for use with **PageStream**. Everything from applications, invoices, calendars, and greeting cards, to architectural symbols, resumes, order forms, and envelopes. Perfect for the pressure-cooked **PageStream** user who doesn't have time to worry about making these sorts of forms.

Only \$28.95!

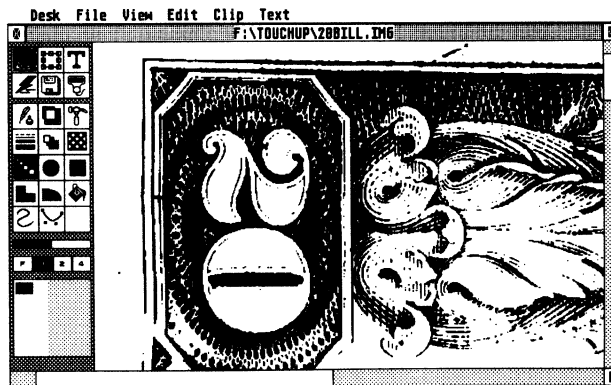
Image Cat - It Ain't No Pussycat

Did you ever need to find the clip art you used on your **Aunt Hilda's** birthday card last September, so you can re-use it this year? I bet you have. That's why **Chet Walters** made **Image Cat**. It's a complete cataloger of **IMG** and **Degas** files. So don't waste more time thumbing through disks! Use **Image Cat** and find it fast!

Be Kind To Aunt Hilda! Only \$29!

Touch-Up. It's Powerful Stuff.

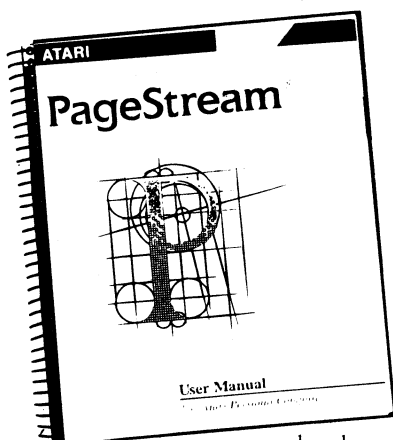
Migraph's Touch-Up software is great for image manipulation. Whether you need to create a high resolution bitmapped image or edit scanned line art or photographs, **Touch-Up** will more than likely do it for you. With features such as **rotating the page or clip area by degrees**, **pattern fills**, **ability to manipulate greyscale images**, **zoom up to four times**, **ability to run in any ST or TT resolution**, **option to use high-quality scalable outline fonts**, **ability to import or export IMG, Degas, PCX, and TIFF files**, and **the ability to use a hard drive as virtual RAM**, **Touch-Up** stacks up to the best image manipulation programs on any computer platform. Teamed up with the **Migraph Hand Scanner** or the **Golden Image Hand Scanner**, **Touch-Up** becomes a high speed art studio. But you'll have to hold your horses to see our scanners — they're on the next page!



Migraph's Touch-Up — Only \$99! Buy Now!

Desktop Publishing Software

(301) 544-6943 Info



PageStream 2.1— Dude!

☛ **Pagestream is cool!** Softlogik has continued the innovations they began with Publishing Partner in 1986 and now sells **PageStream 2.1**. This time they've thrown in some serious goodies such as the ability to use **PostScript Type 1 fonts**, **Compugraphic Intellifonts**, as well as standard **Pagestream fonts**. **PageStream 2.1** also supports color — four color separations as well as spot color. **PageStream has improved its screen display — giving better WYSIWYG quality.** Now it computes font outlines on the fly, from Type 1, Compugraphic, or Pagestream font outlines. **Encapsulated PostScript graphics** from Adobe

Illustrator on the Mac or PC can now be displayed on-screen. A whole mess of printers is supported, and importing text or graphics from just about any other popular program is easy. **PageStream's** modularity means that new printers and file formats can be easily supported too! And printing to **PostScript lasers**, **Ultrascript**, or **your local service bureau's imagesetter** couldn't be easier. **PageStream** has the best PostScript support on the ST. For an example of PageStream's output, look at this catalog. It was done entirely with **PageStream 2.1**.

Only \$179.95!

Garamond Antiqua Bold and Italic
CS Times Roman Bold and Italic
CS Triumvirate Bold and Italic

Compugraphic Intellifonts Included with PageStream 2.1

Font Specials!

☛ Due to a minor oversight, we have a boatload of PageStream Fonts. Here's a list. Buy some. They're cheap and decent:

- 1: Spokane, Devoll, and Thames
- 2: Elegance, Roman Bookface, West Side
- 3: Avant Garde, Bookman, Chancery
- 4: Courier, Palatino, Symbols
- 5: Dingbats, Schoolbook, Helvetica Narrow
- 6: Fab Fifties, Speak Easy, Stencil Caps
- 7: Mars One, Oddballs!, Paint Brush
- 8: Autobahn, Leroy Script, Crackers
- 9: Bodoni, Quadrant, Romanopolis
- 10: Meteor, College, Scrollopolis
- 11: Bengal, Trellis, Uncial
- 12: Deco, Quill, Blaster Chrome
- 13: Licorice, Koala, Floaters
- 14: Coliseum, Tripoli, Anchovies
- 15: Far East, Jeanette, Merlin
- 16: 30 Wt Solid, 30 Wt Rnd, Antiquity, Teepee, Lincoln
- 22: Hieroglyphics, Klinganese, Alien National

☛ **Any Font, \$16!**

Calamus S and SL — The Answer For High Speed DTP!

☛ **Calamus** is German for WYSIWYG. WYSIWYG is crud for **What You See Is What You Get**. Actually, Calamus means reed or feather — perhaps one you'd write with. But anyway, we digress. **Calamus** delivers WYSIWYG on all levels. What you see on the printer is what you get on screen. What you get on screen is what you get on the printer. That highly sought after one-to-one relationship between mind, screen, and paper is actually attainable with **Calamus**. And quickly, too. **Calamus** is the *fastest* desktop publishing program for the ST/TT today. If you use the high speed **Atari SLM804 or SLM605** typically are printed in five to fifteen seconds — compared to one minute and up with other desktop printing to dot matrix and inkjet printers goes faster than you'd think possible. A step up from versions **S** and **SL** are now available and provide many enhancements over the original program. enhanced text editing capabilities, the ability to rotate and mirror all frames, the ability to work with higher measurement accuracy, access to seven documents at once, better control over raster areas, sheets for printing, and many other features. **Calamus SL's** biggest feature is its ability to handle full-**Calamus SL** features 16.7 million colors, four-color separations plus spot color, custom color palettes, the PKS-Write text editor, a vector graphic editor, the ability to print to color printers, the option to use registration and crop marks. Both **Calamus S** and **SL** come with several high quality typefaces, including a Times Roman and Swiss font. Special packages from ISD let you expand Calamus to print at high speeds to create vector-art, autotrace bitmapped images, import and export to Postscript and other graphic file formats, and accomplish many other **DTP** related tasks. Take a look at the items available below. All of them are handy when desktop publishing with **Calamus**, and their modularity allows total and gradual expandability.

Calamus is the *fastest* laser printers, pages packages. Even traditional **Calamus**, **Calamus S** features greyscale images, the ability to use style color in documents.

calamus

imagesetters, edit typefaces,

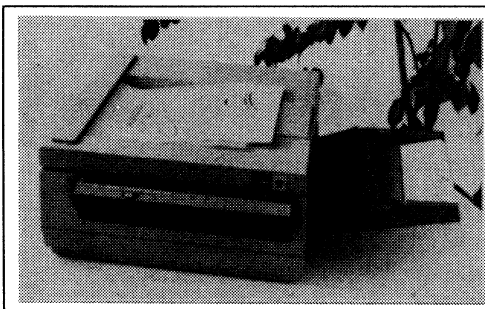
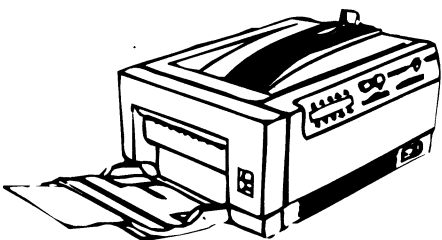
- | | | | |
|--|--------|--|--------|
| ☐ Calamus S | \$169! | ☐ Calamus SL | Call |
| ☐ Calamus DTP Guide | \$31! | ☐ Calamus Outline Art | \$149! |
| ☐ Calamus Font Editor | \$59! | ☐ CalAssistant | \$29! |
| ☐ Calamus Font Guide | \$24! | ☐ Type Art Font Editor | Call |
| ☐ Curve & Line Autotracer | Call | ☐ Dataformer | Call |
| ☐ SL Color Module | Call | ☐ Mount & Print | Call |
| ☐ Job Manager | Call | ☐ Order TOADAY! (800) 448-TOAD! | |

LASER PRINTERS

Atari's SLM605 FAST Laser

• The **Atari SLM605** is the *fastest possible way to print* on the ST/TT computers. Instead of using the traditional **parallel (Eight Bit)** or **serial (One Bit)** ports, the **SLM605** takes advantage of the ST's **DMA (Direct Memory Access)** port. What this means is that the **laser printer and the computer share the same memory**. In other words, rather than have the computer create one image in its memory and then squirt it out to the printer for it to store it in its own separate memory, the computer creates the image in the computer's memory and then the laser printer just prints an image of that memory. This saves time. Refer to the **Calamus** box where we're talking about how fast print times are. They're typically around **two to ten seconds** compared to the same in **minutes** to do comparable tasks on other printers. The **SLM605** isn't just another **6ppm** fast printer though. Blacks are **very** black and the printer behaves solidly. **Based on the same printer as the Epson EPL-6000 and the Abaton Laserscript**, toner and drums are readily available. **Toner life is about 4000 sheets and drum life exceeds 15,000 sheets.** Buy the **SLM605** now and see what **fast, clean DTP** is all about! Requires **1MB RAM** and **4MB** is **darn recommended**. See our **RAM Upgrades!**

Atari SLM605 Laser Printer – 120 Day Warranty, Only \$1049!



The QMS PS-410 Postscript Laser

• I just bought one of these babies a week ago. It's a nice printer. Running a **Motorola 68020 at 25MHz**, expandable up to **6MB** internal RAM, the **410** is a capable and fast postscript printer. It's perfect if you've got to rely on **Postscript**, and you want to be able to print out from other machines too. **The 410 has three actively buffered ports: parallel, serial and Appletalk**, and will automatically detect **PostScript or HP PCL**. Uses the **4ppm Canon Engine**. Portions of this catalog were printed on the **QMS410**.

Killer QMS PS-410 – Special at \$1899!

Other Great Toad DTP Deals

• There are several other good DTP values we'd like to let you know about. We don't have space to list descriptions of them all here, but if you call and ask about them we'll be real nice and answer whatever questions you have. Make sure to **ask Jennifer all the technical questions**. Since she's pretty new around here, she just loves to get all the really **tough** questions. Don't say you read that here though! (grin).

Golden Image Hand Scanner 400 dpi	\$279
(Uses Touch-Up, No Greyscales)	
Font Designer	\$89
Font Designer Plus (Does Type 1's)	\$159
FontVerter (Converts Pgs to Calamus)	\$34
Safari Fonts #6, 7, 8, 10, 12, 13	\$24 ea.
MS Designs Fonts #1 through 10	\$14 ea.
Cherry Fonts #1 though 6	\$29 ea.

The Migraph Hand Scanner

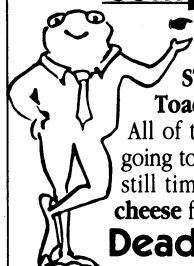
• When you've got **art** you want to incorporate into your desktop publishing documents, the best way to do it is to **scan it in**. And the best scanner for the job is the **true 400 dpi Migraph Hand Scanner**. For only **\$314**, you can have the most trusted hand scanner available for the Atari ST/TT! Comes with **Touch-Up** (see *DTP Software Pages*) and includes the ability to handle greyscale images, which comes in quite handy when it comes time to print on an imagesetter or use on a greyscale monitor. Order your **Migraph Hand Scanner today** and see why so many people think it's so swell! (All line-art in this catalog was scanned with the Migraph Hand Scanner!)

Migraph Hand Scanner – \$309

SUPPLY CENTRAL

☞ SLM804 Toner	\$49
☞ SLM804 Drum	\$154
☞ SLM605 Toner	\$30
☞ SLM605 Drum	\$134
☞ HP DeskJet Cart.	\$18
☞ HP DeskJet Refill	\$14

Complete DTP Starter Package



We have a **great** deal on a complete desktop publishing system for the beginner. It includes a **4MB STE Computer**, an **SM124 monochrome monitor**, a **Toad 30 Hard Disk Drive**, and **SLM605 Laser Printer**. All of this can be yours for a mere **\$1899**. This deal isn't going to be around too much longer, so act now while there's still time! Order now and we'll throw in a **free hunk of cheese** for your eating pleasure!

Deadly Cheap DTP Deal – \$2499!

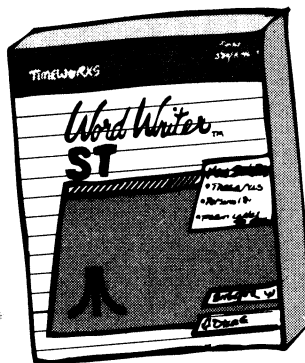
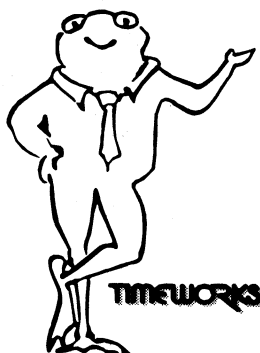
Atari Word Processors

A Scat By Dave Troy

☛ You can imagine that because I'm a store-owner as well as a columnist stud, I get asked "What word processor would you recommend?" And that's a pretty loaded question. The answer is not the same for everyone. Most people, myself included, can get away with something simple like **Word Writer ST** or **First Word Plus**. **Word Writer** works for me — for writing a magazine column and for writing papers for school. For other folks, either because they need the power it offers or are scared they might, **WordPerfect** might be more appropriate. For someone hell-bent for proportional spacing and footnotes, **WordPerfect** definitely does a good job. But still other folks, if they're looking to do a bit more **DTP type work** with different sized fonts and graphics, might consider **Wordflair II** or **WordUp**. These programs utilize Atari's GDOS though, and are going to print **very** slow on any printer but the SLM605 or SLM804. A couple of new programs, **That's Write** and **Write On** are also available now, and they allow more complete access to printer capabilities and allow inclusion of graphics. So, what should you get? Weigh the features, as they're listed here, with the cost, and realize that not everyone needs every feature. Be rational, and if you want to chat about it, please feel free to give me a call. — Dave

*Complete Desktop Shell Built-In to the Program
Macro Feature lets you Save Macros to Disk
Built-In Math Capability— Works Like a Spreadsheet
Automatic Intelligent Hyphenation*

☛ **Neurotic Word Perfect for the Atari ST/TT – Only \$149!**



**Word
Writer
ST!**

**Only
\$49!**

☛ **Word Writer ST** is one of the best selling ST word processors ever. Examine this impressive list of features and look at its \$49 price tag and you'll be won over!

- On Screen Underlining, *Italics*, **Boldface**, And *Lightface*
- A Complete Configurable 90,000 Word Spelling Checker
- An Integrated 60,000 Word Thesaurus
- An Integrated Outline Processor For Documents
- Full Cut & Paste Capability
- Extensive Online Help Facility
- Completely Gem Driven
- Works On Any Hard Drive
- Automatic Mail-Merge Function
- Built-in Print Spooler

Write Your Congressman! – \$49!

WordPerfect
For the Atari ST

Features!

☛ **WordPerfect** for the **Atari ST** brings complete word processing ability to the ST world. As I've said before, you have to be either **neurotic** or in real need of the **extensive features** **WordPerfect** offers to justify its purchase, but it's here all the same. Check this list of great features and you'll see why it's a good choice for the advanced or neurotic user.

*On Screen Columns
Complete Printer Control
115,000 Word Spelling Checker
Automatic Customizable Mail-Merge
Complete Footnoting/Endnoting
Left, Right, and Center Justification*

*Indexes and Table of Contents
Supports over 200 printers
Synonym and Antonym Thesaurus
Automatic Outlining and Paragraph Numbering
Complete Cut and Paste Capabilities
Border Boxes*

ABOUT WP
VERSION
UPDATE
ASK

Wordflair II

☛ **Wordflair II** integrates the abilities of a word processor, desktop publisher, a spreadsheet and graphing program into one easy to use package. Its **word processor** includes a **spelling checker**, a **thesaurus**, **column support**, and more. Importing **graphics** from many different picture formats is supported. A complete **financial calculator** lets you integrate **math functions** into your documents and create and include **pie, line, and bar graphs**. Numerical values can be **dynamically linked** to graphs, so when you update the number of apples you picked over at **Cousin Betsy's** house, your graph will change too. Allows importing from many different spreadsheets and databases. **Wordflair II** also supports the new **FSM GDOS** from **Atari**, giving on the fly **outline font drawing**. Try a document processor toaday! Works with 1MB, mono or color.

Wordflair II – Only \$99!

1st Word Plus

☛ **First Word Plus** is an update of the original **First Word** for the ST. This time they've included the ability to include graphics! It's a simple word processor – quick and easy to use. Includes everything you'd expect it to include. Doesn't use GDOS, so printing is fast and easy on all printers. Great for beginners or those wanting to do simple documents with graphics.

1st Word Plus – Only \$69

Word Up

☛ A longtime favorite for the ST, **Word-Up** is perhaps the fastest of the GDOS based word processors. It allows **inclusion of graphics** with your text, **multiple fonts**, and should work with the new **FSM GDOS**. Great for mathematical formulae. Works best with the Atari Lasers.

Word Up 3.0 – Only \$69

That's Write On

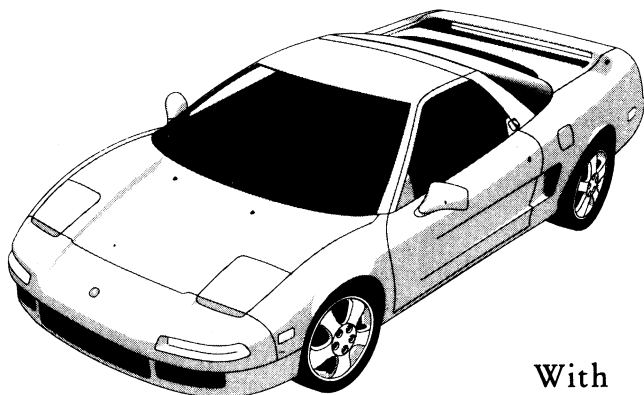
☛ **That's Write** and **Write On** are all-new word processors from England. They support the built-in fonts in your printer for quick printing (**no waiting for GDOS**) and easy setup. They also support the oft-unused feature of dot matrix printers for downloadable bitmapped fonts, and they come with several fonts and a font editor. **That's Write** and **Write On** are your typical word processors, with all the word-processor features you'd expect, plus a few you wouldn't: mail merge, IMG file support, headers and footers, key equivalents for menu commands, automatic timed saving, password protection for documents, and more. The difference between **That's Write** and **Write On** is **That's Write** includes a **110,000 word spelling checker** (with optional foreign language dictionaries) and the ability to create an index and table of contents.

Write On, \$64 That's Write, \$119

Laser Font Disk, \$29 Deskjet 500 Font Disk, \$29
Foreign Dictionaries, \$45 Canon BJ-10e Driver, \$9

DMC

OUTLINE ART



With
Outline Art
and a little creativity
you can create Graphics and
Illustrations such as the images and
type effects you see on this page.

Outline Art provides the designer
and Artist with a powerful array of
tools and functions for the creation
of art, logos, details and special
typographic effects.

Outline Art also allows the output
of PostScript® graphic files via the
"Convert 2X" utility. Outline Art
retails for US \$289.95. For more
information please contact your
Atari dealer or ISD Marketing.

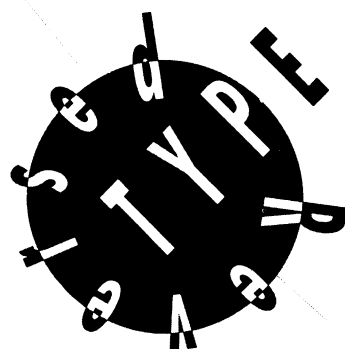
Illustration

CIRCULAR
TEXT
Text along a path

Twisting a text

Mirroring

Peeking



2651 John Street, Unit 3
Markham, Ontario
Canada L3R 2W5
Tel: (416) 479-1880
Fax: (416) 479-1882
Genie: ISD
Compuserve: 76004,2246



Outline Art and Calamus are the registered trademarks of DMC/Dick International, all other Trademarks and Tradenames are the properties of their respective holders. The Acura Illustration is courtesy of Rolf Berger of Images Unlimited.

dB MAN!

A Scat By Dave Troy

➤ In the beginning, there was CP/M. And there was Ashton-Tate. They made dBASE for the CP/M operating system. It was cryptic, but powerful. Then came MS-DOS – and dBASE III. And then came dBASE III+ – and then dBASE IV. They stayed cryptic. But around 1986, dB Man for the Atari ST came out, and it was basically a dBase III+ clone, and it supported easy programming of the GEM operating system. And now, it's even better. **dB Man**, version 5.2 is a pretty good clone of dBase III+, and even runs programs written in dBase. And it runs them **faster**. If you're looking to design a custom database application, and you're familiar with what dBASE can do, you should look at dB Man, because it's good. It's what we use here for **our whole business**, and except for **my** programming errors, it works pretty well! Check it out and see what you think! Includes a compiler (for faster runtimes) and several example programs. Easy to use.

dB Man V, v 5.2 – \$154!

TIMEWORKS

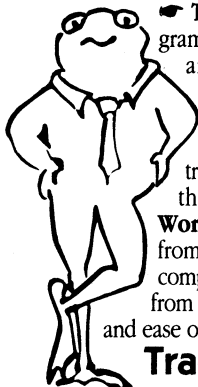
DataManager ST!

➤ Do you need to **keep track** of people for your **community association**? Or your **chocolate-addiction** support group? Or do you need to organize your insect collection so you can find your **prized moth** without having to tear apart your entire basement? **Datamanager ST** might be just the program for you! It's simple to use, uses the **GEM interface**, and allows you to set up fields to track whatever type of information you happen to have. Prints **labels** or **reports** to your specification! Definitely worth a look if you're in need of a data retrieval system!

Timeworks Datamanager ST – Only \$49.95!

Ask About Datamanager Professional! Coming Soon!

TRACKER / ST



➤ **Tracker ST** from **Step Ahead Software** is a simple, easy to use program for anyone who needs to maintain a **mailing list**, a club listing, or any other kind of list which involves people or organizations. Its simplicity is its biggest feature, because it means you don't have to spend time setting up complicated databases, indexes, and report formats. All you have to do is plug it in and you're ready to start keeping track of your group membership, your magazine subscriptions, or what the folks in your **illegal gambling pool** bet on. It now supports **WordFlair II** for creating mail-merged documents with your list of names from **Tracker**. It's also completely compatible with the new **Atari TT030** computer, and it comes with macro files for **Codekeys**, the macro program from **CodeHead Software**. This program isn't for everyone, but if simplicity and ease of use are for you, I highly recommend it!

Tracker ST – A Steal At Only \$52.95!

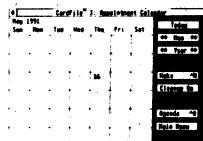
CardFile™ 3

Personal Information Manager

CardFile™ 3 is the complete personal information manager for your Atari ST.

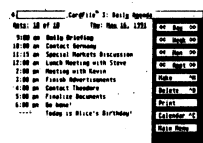
With CardFile you can create easy to use Rolodex® style address books and phone lists.

A powerful and intuitive **Filter** function lets you instantly find any name, address, or phone number. Or it can even find a group of cards that match any particular information you want.



Its powerful built-in calendar can keep track of all your appointments, meetings, and important dates. Call up any day and plan out your agenda.

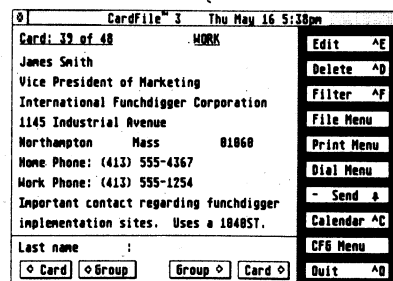
CardFile's Daily Agenda feature will remind you of any upcoming appointments for the next two days when you



turn the computer on in the morning. There's even an option to print a daily or weekly agenda.

CardFile is very convenient. It runs as either a desk accessory or program. Its data is easily imported by most programs and it will even type an address directly into your word processor.

It will print address books, phone lists, and mailing labels. Add a modem and it becomes an autodialer!



All this and more is available for the low price of \$39.95. To order your own copy, call us at (800) 284-4742.

GRIBNIF SOFTWARE

P.O. Box 350 • Hadley, MA 01035

Tel: (413) 584-7887 • Fax: (413) 584-2565

CardFile - 1989-1991 GT Software. Exclusive marketing and licensing by Gribnif Software. CardFile is a trademark of GT Software. All other trademarks belong to their respective holders. Entire ad is Copyright © 1991 Gribnif Software. All Rights Reserved. All prices subject to change.

Supra 2400 \$99!

• This classic modem is amazingly **low priced** and has more features than a lot of cars! It's fully **Hayes compatible** (which means you can use it with lots of modem software), has the standard **RS232** interface, a built-in speaker and a **5 year warranty!** Not only that, it's made in the USA – and with labor prices the way they are here, that's a real tribute to **American ingenuity!** So, if you're looking for a

good value for your money, try the **Supra 2400!** Right now it's only \$99! Get what's yours!

• The **Supra 2400 Plus** has **MNP Level 5 error correction and data compression**, which can be nice if you've got to have really high speed and reliability in your modeming. While not necessary for most users, some prefer and need this high level of **speed and reliability!** Has all the same features of the **2400** including small size. And it's got the same five year warranty. Works great with any computer – **Atari** or otherwise. Great for a **BBS owner!** Only \$174!

And 2400 Plus \$174!

ATARI SX212

• This modem is great for beginners or people who telecommunicate only casually or occasionally. It's fully Hayes compatible, has a speaker, complete set of indicator lights, and works with all of our "fave" modem programs. It will even work with **Prodigy** (a questionable benefit) when using IBM or Mac emulation. If a modem is something you've always wanted but wouldn't buy for yourself, it's down to a price where you can afford to give it to yourself as a birthday gift – or a September 12th gift! Maybe just talk someone else into giving it to you!

Atari SX212 Modem - \$29!

Toad's Modem Software Picks

• If you get a modem, you're going to have to have some way to **use** it – some way to access swell online services like **GENie**, **CompuServe**, and **privately owned BBS's**. We've picked a few of our "**fave**" (a pop word of questionable value brought to us from Britain) modem programs, and we hope that you'll respond to them by being impressed, enthused, and **free-spending**.

Flash! It's a classic!

While it may not have the same technological wonder it once had, it's still the best selling terminal program around. It's what I use most of the time. **\$19**

Stealth! Only One Terminal Program is the Best.

This new techno-funky all-encompassing modem program does a lot. Most notably, it supports almost every known file transfer protocol. **\$29**

FoReM ST: The Moose is Still Around

Born as "Friends of Ricky E. Moose" BBS, this board has weathered about 10 years of evolution. One of the best and most supported for the ST today. **\$59**

Michtron BBS 3.0

This BBS is configurable and programmable, easy to use and FAST. No longer actively supported, but very solid. Recommended for novices or organizations. **\$49**

US Robotics, High Speed Leader!

US Robotics has long been a leader in high speed data communications, and we're thrilled to be able to bring the ST world the high quality and high speed Courier HST modems. Listen to these specs! **Courier HST** offers: **14,400 down to 300 baud (wow!)**, maximum throughput of **38,400 baud**, and **full Hayes compatibility**. The **Courier HST Dual Standard** (it's not the bad kind of dual standard) brings high speeds on more systems by maintaining compatibility with V.32 bis and V.42 data compression (other popular non USR proprietary standards). Both of these modems work fine on the ST, and Stealth and FoReM will take advantage of their terrific specifications. Call or write us or USR for more information. By the way, we're an authorized USR dealer!

USR HST 9600 – \$649! Dual Standard – \$879!

CABLES!

ST/PC Printer.....\$12
ST/PC Modem.....\$12
Mega STE/TT/AT Modem....\$12
ST to IBM Disk Drive.....\$15
ST to ST Disk Drive.....\$17
ST/PC Null Modem.....\$12

• All Cables Are Six Feet Long

PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦

Panasonic

KXP-1180 9 Pin.....\$179
KXP-1191 9 Pin (Faster).....\$229
KXP-1124 24 Pin.....\$289
KXP-1123 P4 Pin.....\$259
KXP-1124i 24 Pin.....\$279
KXP-4455 Laser Partner.....\$2049

We here at **Toad Computers** have always had a lot of faith in **Panasonic** printers. The **1180** 9-Pin is a **great value**, and the **1124** is the **most popular** 24 pin. Check 'em out today! Call for more info!

Star Printers

Star NX-1001 9 Pin.....\$169
Star NX-1020 9 Pin Color.....\$199
Star NX-2401 24 Pin.....\$259
Star NX-2420 24 Pin Color.....\$299

Star Micronics has always offered a good value in dot-matrix printing – from the old **Gemini 10X** to the new **NX-2420**, these printers are alternatives to higher priced models and work better. The **NX2420 Color 24 pin** printer is a terrific value! And the **NX-1001** is a great deal too! You decide!

Citizen

Citizen 200GX 9 Pin.....\$169
Citizen 140GX 24 Pin.....\$269
 Color Options For These.....Call

The **Citizen 200GX** is the printer we use for our receipts here. It's great, and is definitely one of the more "intelligent" printers we sell (look at your receipt). It has automatic paper parking and has a great, vivid color option. Call for more details on these printers. Again, a good option for color printing.

♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦

♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦

♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦ PRINTERS ♦

ST RAM Upgrades

(301) 544-1329 FAX Recipe Hotline

ALL ST RAM UPGRADES!

The JRI Simm Board

• The **JRI SIMM Board** is a **tough** and **reliable** upgrade. It's best for the **technically inclined** who don't mind soldering. Once installed, it's very easy to deal with. Allows installation of up to four **SIMMs** (Single In-Line Memory Modules), which is a **maximum of four megabytes**. If you're not comfortable with soldering, we do recommend that you have us **install** it, which costs \$39. For a 520, you'll need two 256K SIMMs to go to 1MB. For a 520 or 1040, you'll need 2 1MB SIMMs to go to 2.5MB, and 4 1MB SIMMs to go to 4MB. For a Mega 2, you'll need 2 1MB SIMMs to go to 4MB. Call for more information.

The JRI SIMM Board – Only \$109!

The X-tra RAM Upgrade

• This board is **British**, and it's not bad. It can be installed by the end user, usually **without soldering**. But it does have an upper end **limit of 2.5MB**, which is fine for a lot of folks. To go up to 4MB, try something like the JRI SIMM Board or the Z-RAM 3D. But if you don't want to solder, this upgrade may be for you! For a 520, you'll need sixteen 256K chips to go to 1MB. For a 520 or 1040, you'll need 16 1MB chips to go to 2.5MB. Call for more information.

X-TRA RAM Board ST – Only \$109!

RAW RAM

Sixteen 1Mbit RAM Chips (2 MB)

\$123.95

Sixteen 256Kbit RAM Chips (512K)

\$29

1MB SIMMS

\$49.95 ea!

256KB SIMMS

**SUCH A
BARGAIN!**

\$16.98 ea!

The Story of ST RAM: Why Not To Get 27 200ns RAM Chips

A Scat By Dave Troy

• It occurs to me, as I create this catalog of vitality, that lots of people don't really know how ST RAM works, and that it would be a real public service if I explained it. It goes this way.

The Atari ST can address up to 32 RAM chips, either 256 Kilobit or 1 Megabit RAM chips to be precise. The 520ST has sixteen 256K RAM chips in it ($8 \times 256 \text{ Kbits} \times 2 = 512 \text{ Kilobytes} = 1/2 \text{ Megabyte}$). The 1040ST has 32 256K RAM chips ($8 \times 4 \times 256 \text{ Kbits} = 1024 \text{ Kilobytes} = 1 \text{ Megabyte}$). The Mega ST 2 has sixteen 1MB RAM chips in it ($8 \times 1 \text{ Mbit} \times 2 = 2048 \text{ Kilobytes} = 2 \text{ Megabytes}$). The Mega ST 4 has 32 1MB RAM chips in it ($8 \times 1 \text{ Mbit} \times 4 = 4096 \text{ Kilobytes} = 4 \text{ Megabytes}$). This is the maximum.

Not only can the ST not address more than 32 RAM chips, it can't access weird numbers like 27 RAM chips. You have to have either 16 or 32. Installing 27 RAM chips into your 32 chip Z-RAM 3D will get you no additional benefit. This means that the following memory configurations are the **only** ones possible with **any** 68000 based ST RAM upgrade: 512K, 1MB, 2MB, 2.5MB, and 4MB. If you think about what this says, it basically means, "You can have any combination of 256K or 1MB RAM chips as long as you have 16 of one, the other, or both and you don't go below 16 chips or exceed 32 chips." That's it.

New 4MB RAM chips are available, but the ST can't use them. It's missing an address line (and more!) So don't be expecting to take your 520 up to 16MB anytime soon. Trying to use 4MB RAM chips in an ST would be like calling J-3192 in'bingo.

So what are SIMMS? They're Single In-Line Memory Modules. Essentially, a SIMM is eight RAM chips soldered onto a little circuit board. That's it. The advantage with SIMMS is that they're easy to handle; there's no worry of bending pins, or losing little chips. The

disadvantage with SIMMS is that if one chip on a SIMM goes bad, because SIMMS frequently use surface mounted chips, it's basically impossible to replace *just* that chip. You'll need to get a whole new SIMM, but they're not terribly expensive, either.

The 520, 1040, and Mega STE's use SIMMS (as do the JRI and "Best" SIMM boards), and you can use 256K or 1MB SIMMS to create any memory combination of 512K (2 256K SIMMS), 1MB (4 256K SIMMS), 2MB (2 1MB SIMMS) or 4MB (4 1MB SIMMS). The 2.5MB (2 of each kind) configuration won't work on the STE's due to an operating system bug. But the important point to remember here is that with the all of those memory configurations, even though you're using SIMMS, you're still following the golden rule of ST RAM (no less than 16, no more than 32 chips, any combination of 256 or 1MB).

Some ST's can only handle a maximum of 1MB. Some of the MMUs (Memory Management Units) Atari has used will not allow any configuration past 1MB. If you have a square (68 pin) chip near your RAM in your computer, labeled C025912-38, you should be able to go up to 4MB with no problems. If you do not have this chip, you should contact us for more information. Most ST's will be able to handle 4MB, and if your ST will not work with 4MB, we can sell you one of these MMUs for \$49.

Speed of RAM is also an issue, but not typically on the ST. Faster RAM will not make your ST go faster. Buying RAM faster than 100 nanoseconds (80 ns or less) is unnecessary and pointless. Stick to speeds of 100 or 120 and you'll be OK. Even 150's will usually work flawlessly.

So that's the scoop with ST RAM. And as with most things, it all boils down to common sense.

Look Boss, Z-RAM, Z-RAM!

☛ The **Zubair Z-RAM** series boards are the best selling RAM upgrade boards for the STs because they can be **installed by end-users without any soldering** and are relatively inexpensive. They're also one of the most controversial boards. They use what's called an MMU daughterboard. And this daughterboard, if not installed carefully, can deteriorate in the process (get bent pins, etc.) and can also shear delicate pins off the side of the MMU chip.

Not all brands of RAM chips will work with the Z-RAM boards either. And sometimes slight modifications must be made to the computer or to the board.

But despite these few pitfalls, the Z-RAM is still **one of the easiest boards** to install, and **we recommend it highly**. Our basic rule of thumb is this: If you're comfortable with electronics, have good eyesight, and you're not a Type A personality, then you will probably have no problem installing it.

Otherwise, we suggest you have us install it. We have Ray, who is a Type A personality (but has been behaviorally modified) and does a great job with these installations. He just loves to do them. All you have to do is send \$39 and a six pack of Cherry Cokes. (Grin.)

Various Z-RAM Pricing

For the Old 520ST With External Drive
Z-RAM 2.5MB with 2MB RAM \$219
Z-RAM 2.5MB with No RAM \$119

For the 520STfm 1040STf
Z-RAM 3D with 4MB RAM \$349
Z-RAM 3D with 2MB RAM \$249
Z-RAM 3D with No RAM \$129

For the Mega ST 2
Z-RAM 2-to-4 with 2MB RAM \$219



While we obviously can't accept returns on RAM upgrades (due to the possibility of user inflicted wounds), we can offer an alternative. If you can't get your Z-RAM to work, we'll make it work for just \$39 (barring other necessary repairs). That's our regular installation fee. So, you're covered no matter what disaster strikes!

Toad's Steps For Happy Installation

1. Call us to make sure we're all thinking the same thoughts.
2. Pack your computer carefully. Pack it in the box it came in.
3. Send it to us, via UPS, if possible to our store address. Allow 2-7 days for delivery.
4. We will call you if there is any problem with the upgrade. Turnaround time ranges from two or three days to a week or two.
5. If you need your machine by a certain time, please let us know so we can rush your machine.
6. Await your machine's return. We ship out UPS, unless otherwise specified.
7. You can pay via check, money order or credit card. RAM upgrade installation costs \$39.

If other charges must be applied, we'll let you know.

"The Best" RAM Upgrades

☛ These high quality RAM upgrades from Best Electronics provide a **very** reliable RAM upgrade alternative for the ST. They require a **solder-in installation**, so we again recommend you have us do it unless you feel comfortable with soldering. The *chip* version has been on the market since 1985, and has proven itself reliable in that time. Expands up to **2.5 or 4MB**. See chip pricing on opposite page. The *SIMM* version is relatively new, but installs similarly to the *chip* version. Requires soldering. Uses 256K or 1MB SIMM modules to go up to 1, 2, 2.5 or 4 Megabytes; see SIMM pricing on opposite page.

"The Best" Upgrade (Chip) – \$129!

"The Best" Upgrade (SIMM) – \$119!

Toad's STE Upgrade Kits

☛ Whether you have a **520STE**, **1040STE**, or **Mega STE**, our **STE Upgrade Kits** can help you install up to four megabytes into your STE using **no soldering**. This quick upgrade using **SIMMs** can be done by anyone with a screwdriver and a half-hour to kill. This upgrade **does void your STE warranty**. If you're buying an STE now, we recommend buying machines with RAM already installed. They come with a 180 day warranty (rather than the standard 90). This upgrade comes with instructions, diagrams, a RAM disk program, and a RAM testing program and can be installed by a novice or advanced user.

520STE 1MB Upgrade Kit – \$29.95

1040/Mega STE 2MB Kit – \$124.95

1040/Mega STE 4MB Kit – \$209.95

A Pint's A Pound The World Around.

ALL ST RAM UPGRADES!

ST Upgrades

(301) 544-6943 Info

ICD AdSpeed ST!

☛ The ICD AdSpeed ST 16 MHz is a great way to literally double the speed of many of your computer's operations. Improves **screen redraw times** and **math operation speeds**. Great for something like **Ultrascript** which is **math intensive**. Can be switched back to **eight MHz** with a hardware switch or **software** desk accessory. **Requires desoldering** and replacement of 68000 CPU. Installation is difficult, and we



recommend you have us do it, which is \$49 for most machines. Works with 520ST, 520/1040STf/m, Stacy and STE Computers (call for new STE information).

ICD AdSpeed – \$239!

ST Clocks!

☛ Annoyed because your ST doesn't have a built in clock and all your files are dated November 1985? A lot of people were. But not now. Not with these high quality clock chips! The **Forget-Me-Clock II** is an easy to handle cartridge with a passthrough for other cartridges! The **ST/TIME** is an easy internal upgrade for the ST! Both are reasonably priced!

Forget Me Clock II — Only \$49!
ST/Time (Internal) — Only \$49!

TOS 1.4: They Don't Call It Rainbow For Nothin'!

☛ In 1989 Atari introduced **Rainbow TOS**. It's an updated version of the TOS operating system which incorporates several upgrades. An improved **file selector**, the ability to **MOVE files** (without copying and then deleting them), **MS DOS compatible floppy formatting**, the ability to **autoboot GEM applications**, the ability to **rename folders**, and **keyboard reset** capability are all features that have been added in TOS 1.4. Do you have TOS 1.0 or 1.2 and notice that your hard disk can be **very** slow? You need TOS 1.4! It **speeds up hard disk access** by increasing the speed of File Allocation Table look-ups. TOS 1.4 is easy to install, but we're supposed to do it, so installation is free. When you order TOS 1.4, you get a detailed sheet showing how we install it. You need either the TOS 1.4 6 or 2 chip set. The six chip set is for the 520ST, the 520STfm, and 1040STf. Machines manufactured after 1988 may need the two chip set; almost all Mega ST's require the 2 chip set. Order your copy **today** and find out why so many people have upgraded to TOS 1.4! Because it has a cute rainbow Fuji!

Atari TOS 1.4 6 Chip Set – \$59.00!
Atari TOS 1.4 2 Chip Set – \$59.00!

Installation is Included!

SST 68030 Board

☛ The **SST 68030 Upgrade Board** from **Gadgets By Small** is an affordable way to bring **68030** technology to your existing ST. With a retail price of **\$599**, buying the necessary 68030 processor and RAM are all the choices you have to make, and that gets you a super high performance machine. Works with any 520ST, 1040ST, or Mega ST at either **33 or 50 MHz**. We'll be offering cases designed specifically to allow the 520/1040 STs to work with the SST – and we'll be the **official** installation center for this product. Contact us for more information!

SST Board – Call!

TOS 2.0 Board

☛ We've got a product in the works which will allow the all the old ST's to use the new **TOS 2.0** (Mega STE/TT TOS). This has wide implications. We'll get back to you as soon as we know more!

Accelerator Installation

☛ We typically charge \$49 to \$59 for accelerator installations. They are difficult and we recommend you have us do them. Please call for information. Procedure is identical to that listed for RAM upgrades.

Upgrade Your Keyboard!

☛ A cool thing to do is to make your ST keyboard less mooshy. You can do that pretty easily with the installation of the **MegaTouch** keyboard springs. They help your keyboard be a little bit better defined – and the price is right! If you've got kids, early morning computer coffee – or cats – you might want to think about **Keyskins**. They provide a thin but durable plastic coating for the keyboard which will endure a wide variety of liquid spills. Another great way to improve the keyboard of your **520ST** (not FM or 1040) is to replace it with a Mega ST keyboard, or to hook one up externally. With our **MegaMater** you can hook up the high quality Mega ST keyboard to the 520ST externally. Do you have a Mega ST keyboard but would like to improve its quality further? Try the **MegaClick** replacement key switches! It does require a complete reinstallation of switches in the keyboard, but when you're done you have a keyboard of the highest quality – with responsive switches that give positive feedback, so that you *know* you've pressed the keys you want! All these upgrades are reasonably priced and let you upgrade your keyboard to the level you want!

MegaTouch Spring Kit	\$11
KeySkins (520/1040/Mega/TT)	\$21
MegaMater Kit	\$16
Mega ST Keyboard (Whole)	\$119
Mega ST Keyboard (Keyboard)	\$99
MegaClick Key Switches	\$64

ST Upgrade Software

NeoDesk 3 (See Ad Opposite Page)	\$49
HotWire (Call up your favorite applications Using a keystroke or easy menu)	\$29
HotWire Plus (Hotwire and Multidesk, together, plus Some nice utilities)	\$44
Universal Item Selector III (Cool replacement file selector allows many file operations from programs)	\$18
DC Desktop (Replacement Desktop Software)	\$29
Quick ST II (Dramatically improves screen redraw times. Includes a nice benchmark)	\$18
Multidesk (Allows unlimited number of desk accessories to be active at once.)	\$24

NeoDesk[®] 3

The Ultimate Desktop

Order today and get FREE
UPS 2ND DAY AIR!

NeoDesk[®] 3 is a complete replacement of the built-in desktop that comes with your Atari ST/TT. Its advanced, yet intuitive, graphical interface makes your computer both easier to use and much more powerful.

It is the easiest and most affordable way to realize your Atari's true potential. Many have called it "the ultimate upgrade for the Atari ST".

NeoDesk introduced the idea of placing icons directly on the desktop while pioneering the concept of assigning different icons to files and folders.

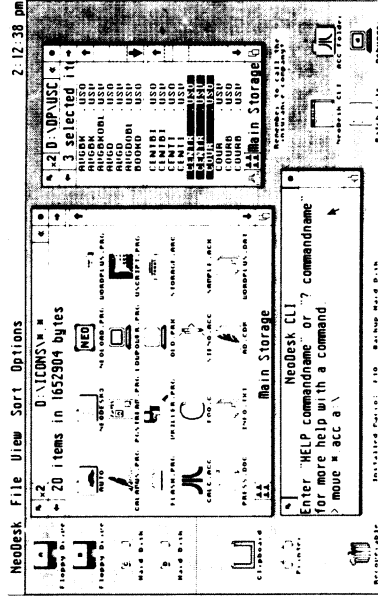
Now NeoDesk 3 takes you a step further, with features that will make you scream "I want my NeoDesk 3!".

NeoDesk has hundreds of features which make it the most powerful desktop available for your computer. You can even write *Desktop Notes*[™] right on the desktop itself.

NeoDesk also lets you see two different parts of the same window, thanks to its amazing *Split Window* feature. Of course, any window can independently be set to display text or icons.

Other features include a built-in icon editor, keyboard equivalents, desktop pictures, file templates, *Hot Keys*, *Macros*, and *Active Icons*[™].

There's even a *File Clipboard*[™] which acts similar to an automatically expanding and shrinking RAM disk.



(Optional NeoDesk CLI available separately)

All this and more is available for the low price of \$69.95. To order your own copy, call us at (800) 284-4742.

GRIBNIF SOFTWARE

P.O. Box 350 • Hadley, MA 01035

Tel: (413) 584-7887 • Fax: (413) 584-2565

NeoDesk is a registered trademark of Gribnif Software. Desktop Views, Active Icons, and File Clipboard are trademarks of Gribnif Software. All other trademarks belong to their respective holders. Limited as Copyright © 1991 Gribnif Software. All Rights Reserved. All prices subject to change.

PC Emulation: A Necessary Evil?

A Scat By Dave Troy

☛ I am a minimalist. That means I don't seek "means" and then lie awake to dream up "ends" to utilize those methods. Rather, I envision what I want to do and then find the best and cheapest way to accomplish that task. And that's what any sane person would do for just about any problem, whether buying lunch at McDonalds to satisfy their hunger or buying a minivan to haul kids or lumber. They act to meet their needs.

So far, I have had absolutely no need for a PC emulator, or a PC clone, for that matter. (I'd be more likely to buy a clone than an emulator if I needed PC compatibility, but that's just a question of technique.) In fact, you can rest assured that when you order, see an ad, or read this catalog from Toad Computers that **none** of it was done with the help of either a PC emulator or a PC

clone. That's just because at no time have I needed PC compatibility to do anything that matters to me.

People say to me, "Gee, there's so much software available for IBM and it'd be great to be compatible!" When I pursue that thread, they aren't interested in any particular program, just that "vast array" of *IBM crud*.

I appeal to you, oh wise Atari owners, to consider whether it is actually necessary for you to run PC software. A good way to determine this is to study what's available for the PC. Locate a piece of software and ask yourself, "Could this money be better spent on cat litter?" If not, then ask yourself, "Is this program roughly equivalent to something on the ST?" If not, ask yourself, "Are there enough other programs like this

to justify the purchase of a PC emulator?" If you come out of that still thinking that a PC emulator is the right thing for you to buy, then you should buy one. That means that this program will actually do you some good and it's worth your while to be able to use it. You'd be surprised how many people don't even consider that process.

The point is that PC compatibility is not mandatory. Weasels like John Sununu are the kind of people who made George Bush use a PC compatible. Poor guy! 640K memory limit! Just think what would have happened if I'd been the Chief of Staff.

Don't buy PC compatibility if you don't need it. Unless you're really into giving us extra sales as a donation for the swell public service we provide, don't bother.

EXTERNAL

Supercharger PCXT Emulator

DISADVANTAGES

- Doesn't do sound
- Takes up one DMA Slot
- Runs at 4.77 MHz
- Only supports 4 Color CGA graphics

ADVANTAGES

- Easy to start using. Just plug in and go. Requires no modifications to computer.
- Allows "multitasking" between ST & PC.
- Switch between ST & PC mode on the fly and use Supercharger's RAM as a RAMdisk in ST mode.
- Comes with 1MB RAM.
- Allows for future 286 & 386 upgrades
- Allows graphics board upgrades in future
- Doesn't need a PhD to use

Only \$419!

VS.

INTERNAL

AT Speed C-16 Emulator

DISADVANTAGES

- Requires solder-in installation
- It's non-returnable (usually)
- Internal installations may stress your machine out

ADVANTAGES

- Doesn't take up any more space
- Supports 16 Color CGA
- Supports VGA Monochrome
- Runs on many machines
- Runs at 16MHz! Same as an AT!

Only \$389

PC-Speed Emulator

DISADVANTAGES

- Requires solder-in installation
- Internal installations may stress your machine out
- Runs only at 4.77MHz

ADVANTAGES

- Doesn't take up any more space
- It's Cheap!

Only \$189!

Neither!

☛ PC Ditto is the original PC emulator for the ST, and the cool thing about it is that it's totally software based. The bad thing about it is that it's slow. But if there's some piece of software you do want to run, you can do it without spending an arm and a leg!

It's \$79!



LDW Power Rocks Lotus!

A Worksheet Range Copy/Paste File Print Graph Data Macro Quit

READY OK [F2] [F4] [F5] [F6] [F7] [F8] [F9] [F10] [F11] [F12]

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

☛ **LDW Power** is the fastest and coolest **spreadsheet** for the ST. It is basically **Lotus 1-2-3** compatible, and it runs faster, too! It's got full graphing capabilities and it will run on any ST with 512K or more (although 1MB is required for graphing). It's a lot faster than Lotus or VIP Professional. What may take up to a few minutes to recalculate in those programs will take a few seconds on LDW Power. Uses the beautiful GEM interface, and runs in any resolution on any ST or TT. Uses GDOS to print graphs to printer or metafile. Comes with sideways printing facility. Definitely a "must have" for any ST owner who has to mess with numbers.

LDW Power, Version 2.0, It's Toadally Cool – \$109
Templicity LDW/VIP Templates for Everything – \$29

PHASAR 4

☛ Phasar is one of the best home accounting programs available for the ST. Although it will work for a small business, PHASAR is designed mostly for the home user. It's a friendly, GEM based single-entry accounting program which gives a comprehensive record of income and expenses. Here are a few features PHASAR offers:

- Relational design integrates financial data
- Artificial intelligence parser predicts input and minimizes typing
- 130 expense/income categories
- Up to 500 transactions per month
- Custom check printing
- Instant help messages
- Split-category transactions
- Automatic transfers between accounts
- Transaction macros for repetitive entries
- Easy budget set-up and maintenance
- Loan/savings plans analysis
- Outstanding transactions display for any account
- Designs individual tax forms
- Clearly formatted and printed reports
- Categories stored in any order
- Stores up to 250 names, addresses & phone numbers
- Display calendar with highlighted special occasions

We recommend this program to anyone who's got killer finances to keep track of, or who just wants to make tax time less painful!

PHASAR Version 4 – Only \$59!

Accounts ST

☛ This accounting program is great for small businesses. Here's a partial list of its features:

Accounts Receivable

- Account numbers and or names
- Customers Names and Addresses
- Invoicing Statements
- Credit Limit
- Up to 10 Tax Rates

Accounts Payable

- Account numbers and or names
- Supplier addresses
- Remittance advice statements

Inventory Control

- 10 Product Groups
- Turnover by Quantity and Value
- Alpha Item Lists
- Invoice Information Editing

General Ledger

- 256 General Ledger Accounts
- Immediate Account Access
- Account details including budget
- Variance Percentages
- Budget vs. Actuals Analysis

Powerful On-Screen Help

Report Generator

Full GEM interface

ISD's Accounts ST – Only \$99!

VIP Professional

☛ VIP Professional is one of the original spreadsheet programs for the ST. It too is Lotus compatible and uses the GEM interface. We were able to get a few copies of this program. One word of warning: it is an older version. It can be upgraded to the newer version, though, and it is a great deal at this price!

Old VIP Professional – \$39!

New VIP Professional – \$94!



DO YOU REALLY want a spreadsheet?

☛ Many times when people think they want a spreadsheet to do a certain job, what they really want is a database management system. Here's a list of jobs where a database would be better than a spreadsheet: **mailing lists, inventory lists, keeping long term checkbook information, accounts payable & receivable systems,** and anything where you have to do lots of searching. Databases are frequently better for the job!

If not, try a database! Page 10

Atari Eight Bit

(800) 448-8623 No More USSR!

ATARI 800 XL & XE

Eight Bit Computers

Atari 800XL (64K, Ca. 1983-86)	\$59
Atari 800 (48K, Ca. 1979-82)	\$49
Atari 1200XL (48K, Ca. 1982)	\$49
Atari 400 (16K, Ca. 1979-82)	\$19
Atari 600XL (16K, Ca. 1983-86)	\$29
Atari 65XE (64K, Ca. 1985-90)	\$59
Atari 130XE (128K, Ca. 1985-90)	\$99
Atari 800XL (256K, Upgraded)	\$99

Eight Bit Disk Drives

Atari 1050 (127K, Ca. 1983-1986)	\$99
Atari 810 (90K, Ca. 1979)	\$59
Atari XF551 (360K, Ca. '87) Used	\$149
Atari XF551 (360K, Ca. '91) New	\$179
Percom SS/SD (90K, 1980-84)	\$99
Percom SS/DD (180K, 1980-84)	\$129
Percom DS/DD (360K, 1980-84)	\$149
Rana SS/DD (180K, Who Knows)	\$109
Indus GT SS/DD (180K, 1982-90)	\$129

Eight Bit Peripherals

Atari 1010 Cassette Drive	\$19
Atari 410 Cassette Drive	\$14
Atari 1020 Color Plotter	\$12
Atari XM301 300 Baud Modem	\$15
Atari 835 300 Baud Modem	\$15
Atari 830 Acoustic Coupler	\$15
Atari 1027 Letter Quality Printer	\$39
Atari XMM801 Dot Matrix	\$99
Atari 850 Interface	\$69
ICD P-R: Connection	\$59
ICD Printer Connection	\$49
ICD U.S. Doubler (1050)	\$29
Xetec Graphix AT Interface	\$49
Atari XEP80 80 Column Board	\$59
Color Composite Monitor (Used)	\$75
Mono Composite Mon.	\$49
POWER SUPPLIES for everything	Call
ATR 8000	\$99
ICD MIO 256K/1MB	Call

Educational Cartridges

Math Encounter	\$10
Kids On Keys	\$13
Fraction Fever	\$15
Alphabet Zoo	\$13
Story Machine	\$13
Ernie's Magic Shapes	\$15
Big One's Special Delivery	\$15

Educational Disks

Kinder Comp	\$10
Rhymes & Riddles	\$10
Stickybear Shapes	\$7
The Stickybear ABC	\$7
Stickybear Opposites	\$7
Stickybear Numbers	\$7
My First Alphabet	\$7
Subtraction With Tink Tonks	\$5
Mickey In The Great Outdoors	\$10
Dr. Seuss Fix-Up The Mix-Up	\$15
Reader Rabbit	\$15

Cassettes

Bowler's Database	\$3
The Rhyme Of Over-Mind	\$7
Picnic Paranoia	\$3
Sammy The Sea Serpent	\$5
Invitation To Programming 2	\$7
Invitation To Programming 3	\$7
Humpty Dumpty & Jack And Jill	\$3
Hickory Dickory Dock	\$3
Home Financial Management	\$3
Cribbage & Dominoes	\$3
British Heritage Puzzles #2	\$3
British Heritage Puzzles #1	\$3

Game Cartridges

Necromancer	\$19
Crossbow	\$19
Barbarian Blaster	\$19
Choplifter	\$24
Thunderfox	\$24
Desert Falcon	\$24
Ace Of Aces	\$29
David's Midnight Magic	\$19
Archon	\$19
Fight Night	\$24
One-On-One Basketball	\$24
Into The Eagles Nest	\$29
Robotron:2084	\$19
Real Sports Football	\$9
Final Legacy	\$19
Star Raiders	\$5
Pac Man	\$7
Missile Command	\$9
Submarine Commander	\$7
Demon Attack	\$9
Jumpman Junior	\$6

Many more *always* available. Call!

Game Disks

Castle Wolfenstein	\$15
Beyond Castle Wolfenstein	\$15
Sargon III Computer Chess	\$9
Exodus Ultima III	\$28
Boulder-Dash	\$9
Auto Duel	\$28
Computer Baseball	\$9
Flight Simulator II	\$15
F.S. Scenery Disk 3	\$9
Silent Service	\$11
Bombing Of Nazi Europe	\$19
Conflict In Vietnam	\$14
Bill Budge Pinball Construction Set	\$7
Axis Assassin	\$9
Murder On The Zinderneuf	\$9
The Seven Cities Of Gold	\$9
Archon	\$9
Gauntlet The Deeper Dungeons	\$29
The Halley Project	\$16
Spy vs. Spy	\$9
Starbowl Football	\$6
Wizard Of Wor	\$7
Bridge 4.0	\$7
Koronis Rift	\$6
M.U.L.E.	\$9
Lode Runner	\$9
Sky Blazer	\$9
Caverns Of Mars	\$9
Temple Of Apshai Trilogy	\$6
Choplifter	\$9
Karateka	\$9
Shamus	\$9
Raid Over Moscow	\$9
Beach-Head	\$9
Agent USA	\$9
Galahad And The Holy Grail	\$9
Colossus Chess 3.0	\$7
Sevens & Klondike Solitaire	\$6
Cribbage	\$6
Chop Suey	\$7
Brimstone	\$16
Hitchhiker's Guide To The Galaxy	\$9
Seastalker	\$9
Stationfall	\$9
Zork I	\$9
Zork II Hint Booklet	\$1
Deadline	\$9
Infidel	\$9
Advanced Infidel	\$19
Advanced Enchanter	\$9
Wishbringer	\$9

The Atari Eight Bit Hits Puberty at 12!

A Scat By
Dave Troy

☛ The Atari Eight Bit machines are now twelve years old. Yep, it was 1979 when the Atari 800 popped out of the bosom of Atari, and things have not been the same since.

The 800 was a revolutionary machine. I was impressed to the point of causing myself sleep deprivation on many weekends. From ten until sixteen, I was a fetish eight bitter. Great games, great graphics, a great basic to program in, plus modems, printers, and countless other goodies to waste my money on proved to be indispensable in my computer education, and I don't regret any of it, nor do I consider any of it useless now.

If you're reading this, I'm sure you know that the eight bit has undergone a serious decline in popularity over recent years (something not entirely unnatural, wrong

or unexpected). But it has happened, and things that once cost an arm and a leg are reduced to yard-sale fodder. But the fact remains, these machines are irreplaceable for learning about how computers work. And for many applications, such as word processing, running a bulletin board system, and using things like Print Shop, the eight bits are no less useful or important than they were in 1982.

What we've tried to do is equalize the market out a bit - to take unwanted machinery (which is just filling up closet space) and give people cash for it, and redistribute it to people who really want it. You might think of it as a bit like Goodwill. While it's a bit more profitable, the idea's essentially the same: turn one man's clutter into another man's jewels.

We mostly try to acquire complete eight

bit systems, then break them down and sell all the software and hardware separately. This means that many pieces of software which the FBI can't find are readily available, but not always for very long. So we have tried to put together a fairly comprehensive listing of what we frequently find here. But there's always more stuff and always more variety.

Our policy on hardware is that all new and used hardware has a 90 day warranty unless otherwise noted. With used software, we guarantee that the stuff works, but if it doesn't for some reason, we'll obviously replace it.

So that's what we're up to. If there's something you're looking for not listed here, call and we can help. And if you've got stuff you want to sell, call or write too! We'll be sending out periodic updates!

YES! We Have More Eight Bit Stuff!

Productivity Software

Homepak Batteries Included	\$9
Paperclip Batteries Included	\$10
Timewise (Appointments)	\$7
Synfile+	\$29
Syncalc (130XE Version)	\$29
Syncalc (Regular Version)	\$24
Synstock	\$29
Compuserve	\$17
Basic XL	\$39
Basic XE	\$49
Mac 65	\$39
Action!	\$39
Toolkits for Above	Call
R-TIME 8	\$39
Super Text Word Processor	\$15
Atariwriter Plus (New)	\$39
Atariwriter Plus (Used)	\$19
Atariwriter 80 (For XEP80)	\$39
The First Xlent Word Processor	\$26
Megafile Database Manager	\$19
The Print Shop	\$29
The Print Shop Companion	\$29
The Print Shop (No Manual)	\$16
The Print Shop Comp. (No Mnl.)	\$15
Indus GT Estate Word Processor	\$2
Indus GT Albert E. Spread Sheet	\$9
Atariwriter Printer Drivers	\$9
Humpty Dump Screen Dump	\$4
Sparta DOS Construction Set	\$29
Sparta DOS X	\$39
Sparta DOS Toolkit	\$19

NEW 3D SOFTWARE!

This innovative new package came out recently and it allows complete creation and shading of 3D objects from scratch! Results are suitable for taping! You won't believe these programs! Call for a copy of their advertising!

Chroma CAD

Model Builder '91
with 136 page manual **\$29!**

Chroma CAD

Surface Shader XE '91
with 69 page manual, 2 pairs of
stereo 3D glasses and
10 models on disk **\$29!**

Surface shader XE requires 130XE. Call **today** and get your own copies of these excellent, amazing and fun programs!

8-BIT GENIE UPDATES!

We will be posting periodic updates on GENie, where we give you "up to the minute" reports on our software & hardware selection. Those of you who have a modem can take advantage of GENie by calling 1-800-638-9636. Once on GENie, look for the Atari Eight Bit roundtable, and the "files" section once within that. Our GENie address is Toad-Serv., and you can search on that to find what we've posted and when. Good luck!

"Our eight-bit inventory is wholly organic and natural."

Because of our variable source, our eight bit inventory is constantly evolving. If there's something in particular you're looking for not listed above, give us a call. We may very well have it, and if we don't, we'll then know we should try to get it. To receive periodic "eight bit" updates from us, please call or write and express your antic lust. We intend to keep hardcore lusters informed in this way. Just remember, our selection will always be entirely new and different.

"SEND US YOUR POOR, YOUR TIRED, YOUR EIGHT BITS!"

If you've got some eight bit equipment (eight bit, hardware or software — even some ST stuff) you no longer need, we want it. All you have to do to trade in your used eight bit equipment is call or write us. We will be able to give you a quote, either for cash or credit, on your equipment. Then all you have to do is send it. It's really that easy! When you do call (or write), please ask for Jennifer. She's handling the eight bit scene, and she'll help you real friendly.

Fixing Your Computer: Top 5 Hits! (Literally)

A Scat By
Dave Troy

☛ The ST Computers are pretty reliable in general. Most machines go for years at a time with no problems. But if your machine has a problem, you're not the first to have had it; there are certain problems which are particularly pervasive. I've compiled a list of the most common ST problems and given hints as to what might cause them. Most people will find that their problem falls into one of these categories.

Atari 520ST (External Disk Drive) – The most frequent problem with 520ST's is that the chips get loose, causing an assortment of problems. The most common one is the inability to read disks properly, which makes the user to believe that all of his disks are blank, which is bad. If you turn on your machine, double click on the "A" drive icon and the window reads "0 bytes in 0 files," then you have this problem. To cure this problem (and this method is worth a shot for just about any problem),

lift the left side of the machine about six inches above a hard surface and drop it. Do this up to five times, if necessary. If things still don't clear up, then call us. If your problem was cured, then your machine needs to be taken apart and have its chips reseated and the machine cleaned. This should clear up all problems for a good while.

Atari 1040ST/520STfm/Mega ST – The power supplies in these machines go bad frequently and require replacement. You have two options. The first is to send us your old power supply and \$55 and we'll exchange it for a new Atari supply. Best Electronics makes a good replacement supply, too, (which is less likely to go bad), and we sell it for \$65. Call for more information.

ST Printer Troubles – The ST uses the Yamaha YM2149 sound chip to control its parallel printer port. (It is a chip with eight

data lines that happened to be free.) When your printer goes bad, some or all of your sound chip has probably gone bad. A Yamaha YM2149 costs \$16, and we can install it if necessary. Call for more information.

ST Monitors – Many of the SC1224's and SM124's floating around these days are dying of natural causes, and not usually the same ones. Usually, tracking down the problem is more time consuming than it's worth; and when you do find the problem, the parts are often unavailable. Atari has an exchange policy: \$105 for SM124's, \$239 for SC1224's (to go to the new SC1435). We recommend it. Call for more information.

Well, those are the most common repairs that we do. If you find yourself in need of any repair work, common or uncommon, please give us a call. Call Ray – he **loves** repairs!

ST Spare Parts

☛ There are several ST parts which are always in high demand (many of which have been mentioned above), so we're listing them here. As always, you can order the spare parts and install them yourself or have us do it!

ST MMU Chip	CO25912-38 (Old Style)	\$49
ST Glue Chip	CO25915	\$35
ST Sound Chip	YM2149	\$16
ST DMA Chip	CO25913	\$35
ST Video Shifter	CO25914	\$35
ST MFP Chip	MC68901	\$17
SF314/Internal D5DD Drive Mech		\$150
520ST Power Supply		\$69
"The Best" Power Supply (1040ST/520STFM)		\$69

Sending Equipment for Repair

☛ Every once in a while we get a piece of equipment in for repair which is really indecipherable. There'll be arrows drawn on the box that point plaintively at the floppy drive, with little unhappy faces drawn nearby. On the top, the box will have a magic marker scrawl: **Owner: Bob.** We'll have no clue where this came from, except for the UPS shipper number stamp on the top, and the most you get from that is *zone six* which really narrows the location down to somewhere in the central U.S. Bob called us sometime a few weeks before, and because we're swell, figured we'd remember that he would in fact send his computer in if his wife really did go on vacation during May. While we can and will remember repairs if we know we're expected to, we can't do this kind of Sam Spade work on a daily basis. What we ask for is a note, that lets us know why your piece of equipment is visiting us, where to send it when it's done and how you want to pay for it. As long as you do this, we'll be happy. Just send things to our normal store address, but remember, **send it with a note!** Please call before sending us any repair, just to make sure it's something we can do. We're **Atari Authorized**, so don't worry, be happy!

Assembly Exchanges

Complete Exchanges

Mega 4 CPU & Keyboard	\$509
Mega 2 CPU & Keyboard	\$395
1040STf CPU Whole Unit	\$199
520STFM CPU Whole Unit	\$189
SLM804 Whole Unit	\$799
SLMC804 Controller	\$150
SM124 Monochrome Monitor	\$105
SC1224 Exchange for SC1435	\$239
SF314 External Disk Drive	\$109

Sub-Assembly Exchanges

Mega 4 Motherboard	\$199
Mega 2 Motherboard	\$169
Mega Power Supply	\$59
Mega Keyboard	\$100
1040ST Motherboard	\$120
1040STf/520STFM Keyboard	\$50
1040ST/520STFM Megafile 30 Power Supply	\$55
520STFM/520ST Motherboard	\$99
520ST Keyboard	\$45
ST Mouse	\$35

Eight Bit Exchanges

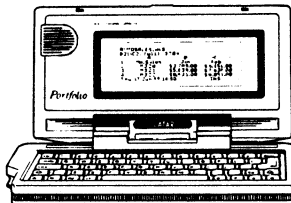
130XE Whole Unit Exchange	\$89
130XE Motherboard Exchange	\$59
65XE Whole Unit Exchange	\$69
65XE Motherboard Exchange	\$59
800XL Whole Unit Exchange	\$69
800XL Motherboard Exchange	\$59

Please Call Before Initiating Any Exchange! This is just for inspiration!

The Atari Portfolio

- 128K continuously powered internal RAM, externally expandable
- System commands are MS-DOS 2.11 compatible
- Includes 5 applications: spreadsheet (Lotus 1-2-3 file compatible), word processing (ASCII file compatible), telephone address book with autodialer, appointment diary with multiple alarms, and calculator
- Familiar QWERTY keyboard, software compatible with IBM PC
- 63 positive action keys with audible click feedback
- Speaker for telephone tone dialing, melody
- Runs on 3 AA Batteries for 6-8 Weeks
- 60-pin expansion bus
- Measures 7.8"x4.1"x1.2". Weighs 15.87 oz.
- About the size of a VHS videocassette
- 80C88 static CMOS processor runs at 4.9152 MHz
- Built in 32-pin connector for RAM/ROM Memory Cards (replace floppy disks for storing data and programs)
- 40 x 8 text mode (with a movable window on virtual 80 x 25 display)
- 256 x 64 pixel graphics mode
- Super-twist LCD adjustable angle screen
- Standard IBM extended ASCII character set
- 90 day warranty standard
- 1 Year warranty available for \$49.95!

• The Atari Portfolio is the world's first handheld portable and *affordable* IBM compatible computer. If you read its impressive list of features, you get some idea of what it's capable of. But there are more products becoming available all the time to handle a wide variety of specialized functions! And heck — they even used one in **Terminator 2** to break into an ATM! From what I understand, that interface and the bundled "No-Mess Bank Robbery" software should be available by the time you read this!



About the size of a VHS Videocassette.
Weighs less than one pound!

Portfolio Stuff

AC Adapter	\$9
128K RAM Memory Card	\$149
64K RAM Memory Card	\$99
32K RAM Memory Card	\$59
Parallel Interface	\$39
Serial Interface	\$59
PC Card Drive	\$79
Parallel Transfer Cable	\$12
Esoteric Stuff Coming Soon!	

Atari Portfolio — \$239!

THE PORTABLE COLOR VIDEOGAME SYSTEM



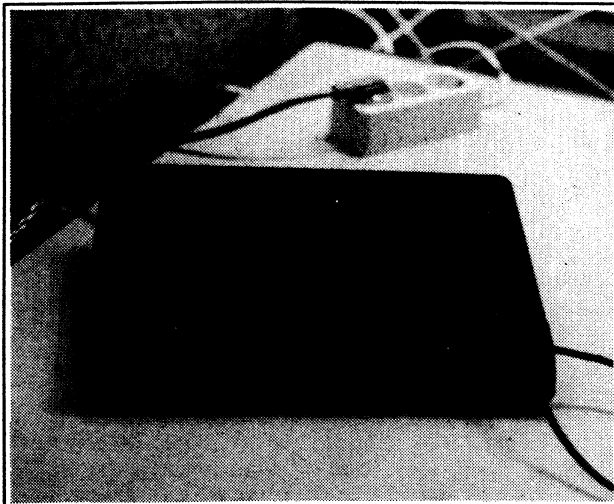
• The Atari Lynx is the world's first handheld color videogame system — and it's also the best! Sporting a 16MHz 6502 CPU, 3.5" color LCD screen, and a 4096 color palette, the Lynx is fast and has beautiful graphics! And there's no shortage of games either. Check these cool games out! **In the \$34.95 category:** *Blockout, Blue Lightning, Electrocop, Gates of Zendocon, Gridrunner, Ms. Pacman, Pacland, Robosquash, Robotron, Scrapyard Dog, Slime World, Turbo Sub, Warbirds, World Class Soccer, Xenophobe, and Zorlor Mercenary.* **In the \$39.95 category:** *A.P.B., California Games, Checkered Flag, Gauntlet, Klax, NFL Football, Ninja Gaiden, Paperboy, Rampage, Road Blaster, Rolling Thunder, Rygar, Shanghai, Tournament Cyberball, Vindicators, and Xybots.*

That's a lot of games, and more are coming out — even as we speak! And the new redesigned Lynx (pictured above) sports a super-ergonomic design that's durable, easier to hold, and even more attractive. And check out this cool list of accessories, too! **Lynx AC Adaptor:** \$9.95, **Lynx Cigarette Lighter Adaptor:** \$17.95, **Lynx Kit Carrying Case:** \$18.95, **Small Lynx Carrying Case:** \$14.95, **Lynx Sun Visor and Screen Guard:** \$7.95, **ComLynx Cable (For Connection of up to eight Lynxes for interactive multi-player gameplay):** \$9.95. Order your Lynx TODAY and get in on the coolest and best videogame system around! Works on AC Adaptor or six AA batteries!

Atari Lynx, Console Only — \$99! With California Games, AC & ComLynx — \$149!

Atari Stylus: A New Approach!

• The Atari Stylus marks the start of the next generation of computer technology by bringing **handwriting recognition** to an affordable price level! While roughly 10% of the American population uses and owns computers, 90% doesn't. At first the barrier was the requirement to enter queer, hard to remember commands through a keyboard. Now, people are even scared of mice. What if there was a machine you could just write on? Many experts believe that this technology is where the future of computers-for-the-masses is. The **STylus** is a regular ST, made into a low power machine with a 640 x 400 LCD voltage sensitive display. A stylus, in combination with extensions to the TOS operating system, will allow any TOS based program to accept handwriting as keyboard input. Built in handwriting recognition software will recognize 98% of most people's handwriting and can be trained on the fly for individuals to achieve 100% recognition! With a 10 hour battery life, this machine would be perfect for salesmen, offices, deliverypersons, and other folks too! With a retail price of around \$1500, it deserves a look! It's pictured at right from its second showing at the Düsseldorf Atari Show in Germany.



The Amphibian Hard Disk Primer

A Scat by Dave Troy

Back in 1988 I wrote a series of articles called "Hard Drive Myths and Mysteries" which appeared in several magazines. Since then, things have changed a little bit, and because lots of folks still seem to have questions about how hard drives work on the ST, I thought I'd write a bit of an update here.

Host Adapters — what are they? The Atari ST computers have a port which Atari calls ACSI (ak'-see), meaning Atari Computer System Interface. It's characterized by the trapezoidally shaped DB19 connector (like the one on the back of your ST). Hard drives and hard drive controllers hook up through an interface called SCSI (scuz'-zy), Small Computer System Interface, a standard thought up in the mid-eighties by Alan Shugart, a hard drive Buddha, and his pals. SCSI usually uses a 50 pin connector, and in a modified form uses a 25 pin connector. A **host adapter** is a board that converts from ACSI to SCSI and thus converts from a 19 pin connection to a 50 pin connection and allows the connection of a hard drive to the ACSI (DMA) port. All host adapters require a 5 volt input to operate.

Controllers aren't Host Adapters. If I had to pick a single thing to correct in this world, it probably wouldn't be the popular urge to call host adapters "controllers," but it sure would be in my top ten. Host adapters **aren't** controllers and vice versa. A host adapter, as you now know, is an interface and acts only as a vehicle for data and commands. A **controller** is the part of a hard drive system that has **brains** and tells the hard drive hardware **what to do**. Controllers can be imbedded or separate.

Way back around early 1988, hard drive setups on the ST typically consisted of an **ST506/412 type hard drive, an MFM or RLL controller board, a host adapter, and a power supply**. In short, an ST506/412 hard drive is one that needs a separate controller. MFM and RLL controllers convert from SCSI commands into commands that hard drives can understand like, "go to this place and read or write." MFM controllers use "standard" encoding when writing to hard drives.

RLL controllers use a "compacted" format which will squeeze about 50% more from the same media. (It should be noted that MFM and RLL controllers are just about impossible to buy now due to the industry migration to SCSI imbedded hard drives.)

Dissecting the Atari SH204: Why early hard drives had to be slow. The Atari SH204, the popular (first) 20MB drive from way back in 1986, is a good illustra-

"SCSI is the future of mass storage for the masses. Trust me."

tion of a hard drive that uses a separate controller. Let's see what's inside. First, there's a Tandon 20MB MFM ST506 type hard drive. Then there's an Adaptec 4000A controller and an Atari host adapter. So, when your computer wants a particular piece of data, the request for the data and ultimately the data itself must take six buses to get downtown. The computer has to send its request to the Atari host adapter. There it has to switch and get to the Adaptec controller, and from there it has to get to the Tandon itself. Then the hard drive has to send the data back to the controller, then to the host adapter, and back to the computer. This is slow. And all this switching is why the SH204 typically has a throughput rate of well under 400K per second.

A **SCSI** drive eliminates a lot of this porkfat by combining the hard drive and controller into one integrated unit. Let us take another example.

Dissecting the Toad 85: A Lesson in Good Design. In the Toad 85, you have a simplified design containing only a SCSI 85MB hard drive and an ICD Advantage Plus host adapter. Discounting the fact that the ICD host adapter is better and faster than the Atari equivalent, the biggest speed increase in this mixture comes from having fewer bus stops for the data to wait at. Data goes from the

computer to the host adapter to the hard drive. That's only one intermediate stop instead of two, and that improves reliability **and speed**. So the throughput rate on the Toad 85 is typically just under 700K per second. That's not bad, and it's near double what the SH204 did 5 years ago — and what some other hard drives are doing now.

Removable Cartridge Hard Drives: What's the big difference? There's not a lot of difference between a removable cartridge hard drive and a fixed hard drive. The biggest difference is that you can take the media out of a cartridge drive and you can't take it out of a fixed drive (without making it into a permanent frisbee). Other than that, they're very comparable. Everybody wants to know if they're reliable. We've been selling the Toadfile 44's for over two years now and in that time we've had more defective fixed hard drives than removables. And more often than not, when there's a defect with the removables, it's in the drive and it doesn't affect the data. A fixed hard drive can't get you this feature. And the two year warranty on the Toadfile 44 drive, combined with statistics, show that a removable hard drive is more reliable than a fixed hard drive when it comes to data security. Speed-wise, the Toadfile 44 is just another SCSI drive, so it will be comparable to the Toad 85 in speed.

Access Time: It may not be as important as you think. There is a danger in comparing things by way of measurable numbers. Numbers don't always matter that much — and certain statistics may not apply to certain people. Access time is a number to which people pay too much attention. And most people don't even know what it is. It's the average amount of time it takes for the drive's head to get from arbitrary point A to arbitrary point B. So a 28 millisecond access time isn't noticeably different from a 25 millisecond access time. Observe the following.

Suppose you've got to read a really big file, and it's written contiguously on your hard disk. You will observe almost no measurable difference between a 40ms

drive and a 28ms drive, because the drive head only has to move from one track to the next. There's no jumping around so there's no cumulative difference in speed. You'll see that the throughput rate of these drives will make more of a difference.

Access time begins to make more of a difference after hard drive files have had a chance to become "fragmented," which means that files are no longer written to contiguous areas of the disk. Fragmentation is a natural process that occurs as the hard drive re-uses sectors from deleted files and tries to "fill-in" all the available areas of the media. But even when your system tries to read one of these fragmented files, unless it's *really* long or you're trying to read it repeatedly, the total speed difference will be unnoticeable. Operating systems which are disk intensive, such as the Mac OS, can really benefit from a smaller access time because fragmented files *may* need to be read repeatedly. But on the ST, where most files are read once and then forgot about, better access times are usually only mildly helpful.

5.25" or 3.5": It doesn't matter. This doesn't come up as often as it used to, but it's worth explaining nonetheless. These measurements don't describe anything other than form factor. And a smaller drive isn't necessarily faster than a bigger one. Example: the Tandon 3.5" drive used in the SH20+ is **much slower** than the larger 5.25" drive used in the Toad 85MB drive. Proponents of 3.5" drives say that there's less heat buildup because there's less mass to move, and thus the drive life is longer. This is a nice theory, but if you look at the mean time between failures of comparable 3.5" and 5.25" drives, they're identical. So it's not really correct to say that smaller is better. The drives are designed to meet similar specifications. Choose whichever drive is best for the job.

Building it yourself: It may be more trouble (and money) than it's worth.

Lots of folks are convinced that building your own hard drive from scratch is cheaper and easier. I submit that it's not. When an end user has to deal with brand new components out of the box, the chances of some single component being

defective or some connection being made incorrectly are rather high, and the end user doesn't have access to a stack of drive mechanisms or host adapters to try. Where building it yourself becomes much more economical is when you've already got one component — like the drive mechanism or case and you don't want to buy another one. Otherwise, buy the whole system already assembled from us. It'll be cheaper **and** it'll work when you get it!

The Future: 2GB Hard Drives? Mass storage in the future seems to be leaning towards optical media. But don't expect your hard drive to be "useless" just because things are changing. While exciting times are ahead, hard drives are still an economical, fast and convenient storage medium and they'll be used by hobbyists and industry well into the 21st century.

Just an overview. Call for philosophy. This article is definitely the abridged version of the story. If you want to philosophize a bit, call us. We'll answer your questions, even if they are a little weird.

COOL: Hard & Floppy Parts & Stuff!

Host Adapters

ICD Advantage Plus.....	\$99
ICD Advantage.....	\$89
ICD Advantage Micro.....	\$89
Call for others. We may get some.	

Controller

OMTI 3527 RLL (Only a few!)....	\$149
---------------------------------	-------

Cases/Power Supplies

Shoebox Case & PS.....	\$109
Under the Monitor Case & PS....	\$119
Host Mount for Cases.....	\$10
ToadPlus UTM Case.....	\$139
Tower Cases.....	Call
ICD FNST Case, P.S. & Host Kit....	\$259

Drive Mechanisms

Seagate ST138N-1 30MB 28ms.....	\$259
Seagate ST157N-1 50MB 28ms.....	\$279
Seagate ST296N 85MB 28ms.....	\$379
Seagate ST1096N 85MB 24ms.....	\$399
SyQuest 44MB & Cart 25ms.....	\$449

Drive Mechanisms

Syquest 88MB & Cart.....	\$699
Quantum LPS52 12ms.....	\$279
Quantum LPS105 12ms.....	\$389
Quantum 200 12ms.....	Call
Conner 20MB Low Profile.....	\$299
Conner 40MB Low Profile.....	\$349
Conner 105MB.....	\$479
Seagate 613MB 14ms.....	\$1599
All Drives Listed Above are SCSI Drives.	

Miscellany

3.5" Mounting Bracket.....	\$10
18" SCSI Cable.....	\$10
ST506/412 34 & 20 Pin Cabler.....	\$10
Screw Pack for two drives.....	\$1
Host Adapter Mounting Plate.....	\$10
Controller Mounting Plate.....	\$10

Floppy Drive Mechs

720K 3.5" Teac DSDD.....	\$85
360K 5.25" Teac DSDD.....	\$85
3.5" Teac Mounting Kit.....	\$10
1.44MB 3.5" Teac DSHD.....	\$90

Floppy Drives: Dude!

Maybe you don't really need a hard drive. There are a couple of high quality 3.5" 720K drives that I'd really recommend. Check these out:

Atari SF314 720K

Double sided drive from Atari. It's kinda traditional. Works good. Works with Spectre GCR. ST gray, ST/TT compatible.

Now Only \$159!

Golden Image 3SD

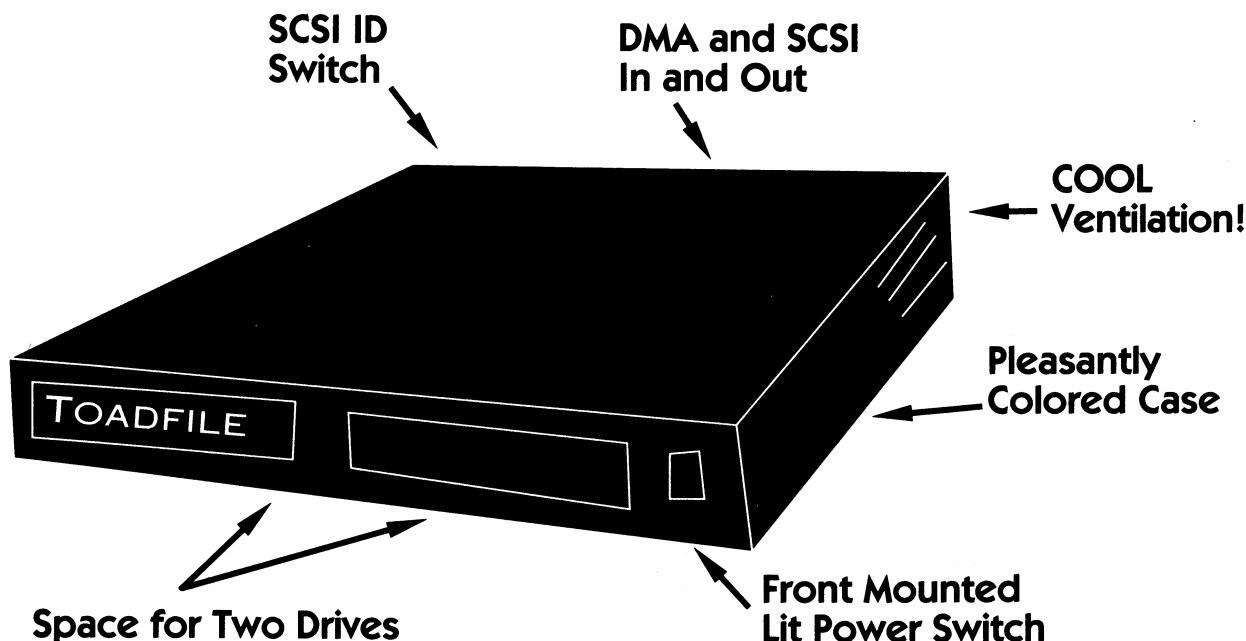
Double sided 720K. Nice alternative to the SF314. Has a track display — great for trivia buffs. TT cream colored, ST compatible.

Now Only \$149!

High Density Drives

German HD Upgrade.....	\$69
Dreampark HD Module.....	\$119

We Can Point to Thirty-One Reasons You Should Buy a Hard Drive From Toad Computers — Now.



☛ Our new **ToadPlus** series hard drives have the seven new features we've pointed out above. Here are some more:

- Detachable Standard Power Cord
- Handy Female Power Out Jack (Great for Monitor – Saves an Outlet)
- A Cool, Cool, Cooling Fan
- Fits Under Monitor or Mega ST
- Great For Do-It-Yourselfers Too
- Specifically Designed for the ICD Host Adapters, and others fit too!

☛ You need a **ToadPlus** hard drive now if you want:

- Faster Reading/Writing Of Files
- No More Floppy Swapping
- Enough Room For More Than Three Large Files at a Time
- Better Organization of Files

☛ And our superior product isn't the only reason we should be your first choice for a hard drive. See if our competition can match these demanding requirements:

- More than three brain cells
- Nearly 5 Years Hard Drive Experience
- No Police Record
- Drives Come In a Variety of Cases: Shoebox, **ToadPlus**, TT/Mac, or ICD
- Drives FULLY Tested before Shipping
- ALL Service Done ON PREMISES
- All Drives Easily Expandable
- Telephone Tech Support Mon.-Sat.
- Comprehensive Knowledge of Atari Applications & Other Hard Drives
- PD Software Available ON Drives
- Custom Case Painting Available
- Do-It-Yourself Drive Parts & Service
- Hard Drive Upgrades
- **FAST & FREE Shipping**

Hard Drive Software

☛ There are several programs which are very helpful for hard drive users, and we thought we'd list them here.

Cleanup ST

Nothing to do with EPA Superfund. Great program that checks for bad sectors, cleans up mislinked files, allows backup of partition & boot sectors. Worth it. **\$34**

Hard Drive Turbo Kit

Versatile utility includes a backup utility, a hard drive defragmenter, as well as a hard drive cache. The defragmenter is a big asset. **\$37**

Diamond Back II

Great backup program. Backs up by image or file. Even backs up SyQuest MAC & IBM cartridges. Easy to use. Great for **Toadfile 44** users. **\$39**

The Good Backup Utility

Simple & functional backup program. Great for quick file backups. Does smart "delta" backups. **\$19**

You Need a Toadfile 44 Plus!

☛ The **Toadfile 44** was the first removable cartridge hard drive system for the ST. As a result, we've had some time to *evolve*. Now the **Toadfile 44 Plus** is the current version, and it's great! It uses the new **ToadPlus** case. And now, the **Toadfile '91 Plus** 88MB removable is available — and the price on these has come down. Check 'em out! The **Toadfile 88 Plus** has a great **double 44MB** setup — perfect for users who need to copy between cartridges. **Features of a removable:** data is completely secure and can be locked away; hard drives can be backed up to a removable; data can't be damaged when it's not in use. Never thought a removable was for you? Maybe it is. Give us a call and ask us some questions about the most popular removable.

TOADFILE 44 PLUS DRIVES

Toadfile 44 Plus (44MB Removable & Cart)	\$699
Toadfile 96 Plus (44MB & 52MB 12ms HD)	\$949
Toadfile 149 Plus (44MB & 105MB 12ms HD)	\$1049
Toadfile 254 Plus (44MB & 210MB 12ms HD)	\$1449
Toadfile 44 Magnum (44MB & 3 Carts)	\$839
Toadfile 88 Plus (Two 44MB Drives & Carts)	\$1139

TOADFILE '91 PLUS

Toadfile '91 Plus (88MB Removable & Cart)	\$849
Toadfile '91/52 Plus (88MB & 52MB 12ms HD)	\$1099
Toadfile '91/105 Plus (88MB & 105MB 12ms)	\$1199
Toadfile '91/210 Plus (88MB & 210MB 12ms)	\$1599
Toadfile '91 Magnum (88MB & 3 Carts)	\$1089
Toadfile '91/44 Plus (88MB & 44MB & Carts)	\$1289

Toadfile Features

- Longest DMA Cable Around (2'+)
- ICD Advantage Plus Host Adapter w/ Clock
- Our **ToadPlus** SCSI Switch
- Available In Shoebox Case for Same Price
- 44MB Cartridges: \$75 Ea. Qty 3
- 88MB Cartridges: \$129 Ea. Qty 3
- Check "Supplies" Page For More Pricing!

ICD Products

☛ ICD makes a nice hard drive case too, called the FNST, but it only has space to hold two 3.5" drives. But this is OK for most users, and the cases are cute!

ICD FAST Quantum 52	\$559
ICD FAST Quantum 105	\$649
ICD FAST Quantum 210	\$999
ICD 155MB Tape Backup System	\$869
ICD HD Software Upgrade	\$5

Who Uses Toads?

☛ You may wonder what kind of folks have chosen **Toad** drives and what they have to say about them. Here are some satisfied **Toad** customers:

- **Dave Small, Gadgets By Small**
"I *LOVE* my Toadfile 44. All Spectre development is now being done on the Toadfile 44."
- **Art Neville, The Neville Brothers**
"It's great!" He got a Stacy, too.
- **General Dynamics, Electric Boat Div.**
They make nuclear submarines. Dude.
- **Frank Sommers, CN ST Editor**
"The finest stuff available!"

Toad Drives: The Best

☛ When we started selling hard drives, we realized that right next to the hard drive mechanism itself, the **packaging** was the most important element. That's why we came up with the **ToadPlus** case. It's simply the best designed hard drive case for the Atari ST today! And of course, nothing comes before the hard drive itself. And that's why we've started using the **Quantum** low profile hard drives, too. Check out these systems!

TOADPLUS SEAGATE SYSTEMS

Toad 30MB 28ms	\$429
Toad 50MB 28ms	\$479
Toad 85MB 28ms	\$559
Toad 170MB 28ms	\$869
Toad 613MB 14ms	\$1899

**THE ABSOLUTE
BEST VALUE!**

TOADPLUS QUANTUM SYSTEMS

Toad 52MB 12ms	\$499
Toad 105MB 12ms	\$599
Toad 210MB 12ms	\$889
Toad 420MB 12ms	\$1599
Tadpole 52 Mega Internal	\$399
Tadpole 105 Mega Internal	\$499

**TWO YEAR
WARRANTY!**

- **ToadPlus** Under-Monitor or Shoebox Cases, Same Price
- Longest DMA Cable Around (2'+)
- ICD Advantage Plus Host Adapter w/ Clock
- FULL Two Year Warranty, Parts & Labor
- Able Bodied Monday-Saturday Tech-Support
- Want your hard drive full of PD Software? Add \$1/MB!
- Ask about ToadTower Cases & Drives — Available Soon!

Mac Emulation: My Friend Dave

Mac emulation is fun. Thank Dave Small for it. If it wasn't for him – and Sandy, and Barb, and experience – Mac emulation would just be another vapor product.

How does it work? The Spectre GCR is a cartridge that plugs into the side of any Atari ST/TT computer. It contains some custom circuitry plus two 28 pin ROM sockets. The 128K Mac System ROMs plug into these sockets. These Macintosh ROMs, combined with Dave Small's software, allow your Atari to think it's a Mac. And it even reads Mac disks.

Why is reading Mac disks so hard? Apple chose a format for their floppy disks that has a weird requirement: that the floppy drive be able to change its rotation speed depending on the track

being accessed. In short, this is completely different from and foreign to the way ST disks are accessed. The ST uses a fixed speed drive.

If you were to play a Mac disk as if it were an LP record, the songs would start out normal and get real fast towards the center. This is the problem Dave Small had to overcome when he created the Spectre GCR. How do you make all the songs sound normal? How do you translate from a variable speed recording to a fixed speed recording using only a fixed speed drive?

Well, Dave did something funky. He wrote *software* that would emulate a variable speed drive, burned it into some chips, and let it loose on ST floppies. As a result, with the Spectre GCR's help, you

can read Mac disks on just about any ST, with no modifications.

Color or Monochrome? The best way to use the Spectre GCR is with an Atari SM124 monochrome monitor. You get a screen that's significantly bigger than that of the Mac Classic, and it's easier on the eyes. While it has been possible to use a color monitor with the Spectre in the past, the color support is awkward. It's not possible to support color Mac programs with the 128K ROMs, but never say never to Dave Small — he's looking into using the 256K ROMs.

Compatibility? The Spectre GCR is 100% compatible with popular programs and 95% compatible with obscure programs. Call Gadgets By Small to inquire about specific programs.



❖ SPECTRE ❖ — GCR —

THREE WAYS TO BUY

1. SPECTRE GCR \$219
2. MAC ROMS \$300
3. THE TOADALLY COOL SPECTRE GCR DEAL \$469

PRICES ON THESE ITEMS
ARE QUITE VOLATILE AND
SUBJECT TO FREQUENT
CHANGES. PLEASE CALL
FOR UPDATES.



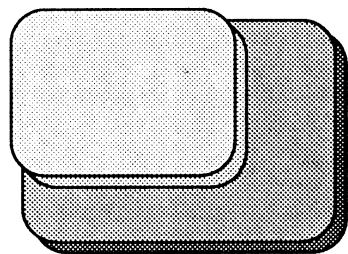
This is Spectre GCR

GCR Runs Mac Software on
the Atari ST and TT/030.

GCR Reads Mac Disks.

GCR Also Speaks AppleTalk.*

Mac vs. GCR/ST Screen Size

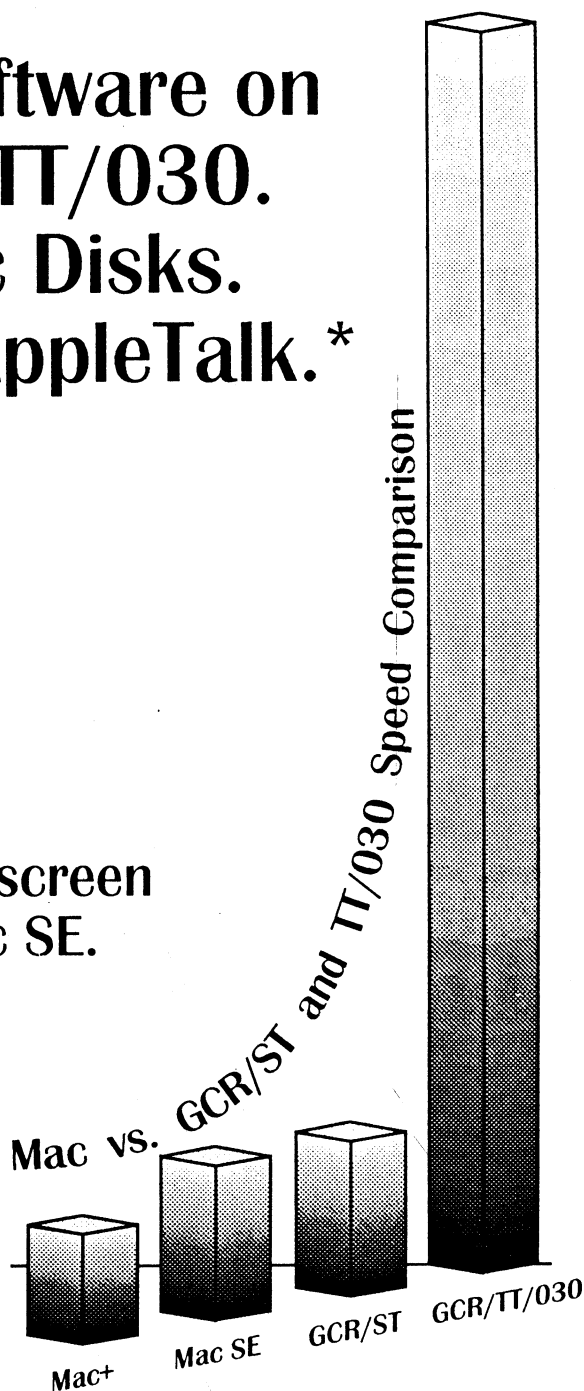


□ Mac+/SE
Screen Size

■ GCR/ST
Screen Size

GCR has a 30% larger screen
than a Mac Plus or Mac SE.

GCR is at least 20% faster
than a Mac Plus.



Gadgets 
by Small, Inc.

Suggested Retail: \$299.95
(Mac 128K ROMs not included)

40 W. Littleton Blvd.; #210-211 • Littleton, Colorado 80120 • (303) 791-6098 • Fax: 1-303-791-0253

* Requires Atari Mega ST and MegaTalk.

Mac Plus, Mac SE, Mac, AppleTalk are trademarks of Apple • Atari ST, TT are trademarks of Atari •

Spectre GCR, MegaTalk are trademarks of Gadgets by Small

DISKS: All You Can Eat!

3.5" Floppy Disks

Double Sided 720K

\$0.85 Ea. Qty 1-10
\$0.79 Ea. Qty 50
\$0.60 Ea. Qty 100
\$0.50 Ea. Qty 200

High Density 1.44MB

\$1.45 Ea. Qty 1-10
\$1.20 Ea. Qty 50
\$1.10 Ea. Qty 100
\$1.00 Ea. Qty 200

5.25" Floppy Disks

Double Sided 180/360K

\$0.49 Ea. Qty 1-10
\$0.39 Ea. Qty 50
\$0.34 Ea. Qty 100
\$0.32 Ea. Qty 200

High Density 1.2MB

\$1.05 Ea. Qty 1-10
\$0.95 Ea. Qty 50
\$0.90 Ea. Qty 100
\$0.87 Ea. Qty 200

Removable Media

Syquest SQ400 44MB

\$89.00 Ea. Qty 1-2
\$75.00 Ea. Qty 3-10
\$72.00 Ea. Qty 11 up

Syquest SQ800 88MB

\$139.00 Ea. Qty 1-2
\$129.00 Ea. Qty 3-10
\$121.00 Ea. Qty 11 up

Purchase Orders Accepted!

DeskJet Ink!

Re-inking a standard HP Deskjet ink cartridge is a great way to get more print time per cartridge, and it's darn economical too. Check out these prices!

HP Black Refill	\$14
Colored Refills:	
Blue, Red, Violet	
Brown, Green, Yellow	\$16

Accessories

Curtis Copy Clip	\$7
3.5" Disk Box (40 cap)	\$8
5.25" Disk Box (50 cap)	\$8
Computer Starter Kit	\$31

Paper

We've got a great deal on standard computer paper. You will find no paper cheaper than this and none of higher quality. It's twenty pound microperf.

\$10.99 / 1000 Sheets

Cables

ST/Portfolio Printer Cable	\$12
ST Modem Cable	\$12
Mega STE/TT Modem Cable	\$14
Mega STE/TT Lan Setup	Call
Eight Bit Printer Cable	\$12
Eight Bit Modem Cable	\$12
Portfolio Transfer Cable	\$12
MIDI Cable 2-Pack	\$9

About This Catalog

This catalog was recorded live between June and September 1991. While major work was not begun until late July, preparation, meditation, and eating lots of liver and ice cream (thanks to Friendly's Severna Park) was done in the preceding months. We had to buy new equipment, get new programs, get a new printer, get more fonts, get more fonts, stop and cry for a while, get more fonts, sleep for fifteen minutes, make two thousand phone calls, and then take it to the printer. I'd like to thank some people: Jennifer, for production assistance, being scornful of poor design, and not hating me; Ray, for hating me; D+C whose wedding I missed; my parents for not bothering me too much about my hair, and all those who contributed recipes, whether it was at gunpoint or not. Thanks too to all the advertisers and general supporters: Dave & Sandy Small, Gadgets By Small, Gribnif Software, ISD Marketing, the WAACE Atarifest, and Current Notes. **Just so you know**, this catalog was prepared on an Atari TT030 using PageStream 2.1, a Migraph Hand Scanner, 150MB of hard disks and a QMS PS-410 PostScript Laser, as well as a 4MB 1040STE running a Spectre GCR with Adobe Illustrator and Typestryler for PostScript graphics. The final camera ready copy was printed on a Linotronic L200 at 1270dpi by The Write Stuff, Annapolis, MD. The catalogs were offset printed by the Carroll County Times, in Westminster, MD, September 10, 1991. To request more copies of this catalog, please contact us at our regular store address. See y'all next time - it's been fun!

Printer Ribbons

Panasonic KXP110i	
Fits 1080i and 1091i	\$11
Panasonic KXP115	
Fits 1180 and 1191	\$11
Panasonic KXP145	
Fits 1124, 1123, 1124i	\$14
Star NX1000 Ribbon (B/W)	\$8
Star NX1000 Rainbow (Color)	\$14
Citizen 200GX/140GX	Call
Epson FX/MX/RX80 Ribbons	Call

RIBBONS of all kinds. Call for pricing.

Books

The Atari ST Book

By Ralph C. Turner. Explains many general ST topics in an easy to understand and accurate manner. \$14

Advanced ST Subjects

By Ralph C. Turner. Covers more advanced ST topics - hard drives, emulation, floppy drives, VT52 control codes, and more! \$14

The Complete Portfolio Guide

This book supplements many of the topics covered in the manual. Good for beginners \$17

GFA Basic Ver. 2 Guide \$3

GAME CLEARANCE: "Everything Goes" Sale!

Full Metal Planet	\$19.95	APB	\$19.95	Microleague Baseball Team ('87)	\$4.95
Chuck Rock	\$19.95	The Sentry	\$9.95	Psycho	\$9.95
Pick'n Pile	\$19.95	Battle Zone	\$7.95	Frost Byte	\$5.95
The Light Corridor	\$19.95	King's Quest II	\$25.95	Timeblast	\$7.95
The Muscle Cars	\$19.95	Clue Master Detective	\$24.95	Liberator	\$7.95
Mighty Bombjack	\$19.95	Hollywood Hijinx	\$9.95	Mouse Quest	\$8.95
Vector Championship Run	\$19.95	Sky Chase	\$4.95	All Aboard	\$4.95
Revelation	\$19.95	Midway Battles	\$4.95	Pirates	\$24.95
Helter Skelter	\$19.95	Speedball	\$22.95	Chip's Challenge	\$24.95
Loopz	\$19.95	Treasure Island	\$7.95	Pirates Of The Barbary Coast	\$4.95
Street Hockey	\$19.95	Miami Vice	\$4.95	Twilight's Ransom	\$5.00
Operation Harrier	\$19.95	Dragons/Buccaneers' Den	\$6.95	Sinbad	\$4.95
Death Trap	\$19.95	President Elect 1988 Edition	\$3.95	Questprobe	\$6.95
Spindizzy Worlds	\$19.95	Buzzword	\$1.95	Treasure Island	\$4.95
Back To The Future	\$19.95	Knicker Bockers	\$7.95	Fish	\$4.95
Professor Mariarti	\$19.95	Hippopixel	\$5.95	Dream Zone	\$9.95
Dragon Breed	\$19.95	Slaygon	\$5.95	Murder On The Atlantic	\$9.95
Jupiter's Masterdrive	\$19.95	Formula 1 Grand Prix	\$9.95	Perry Mason	\$9.95
Lock-On	\$9.95	Seconds Out	\$9.95	Amazon	\$9.95
The Flintstones	\$14.95	Space Station Oblivion	\$4.95	Fahrenheit 451	\$9.95
PSION Chess	\$19.95	Protector & Space Station	\$9.95	Corruption	\$9.95
Breakers	\$6.95	Pro Sprite Designer	\$9.95	Jinxter	\$9.95
Oriental Games	\$19.95	Microleague Baseball Team ('86)	\$4.95	A Mind Forever Voyaging Hints	\$3.95

GAMES

All The Best New Games at the Best Prices!

**AIRPLANE
GAME SPECIALS**

F-19 Stealth Fighter	\$39
F-15 Strike Eagle II	\$42
Falcon	\$32
Falcon Mission Disk 1/2	\$21
Flight of the Intruder	\$42
Flight Simulator II	\$35
Fighter Bomber	\$39
FB Mission Disk	\$29
Proflight	\$52

**DUNGEONS
AND SUCH**

Dungeon Master	\$24
Chaos Strikes Back	\$24
DM Hint Book	\$10
DM Hint Disk	\$15
DM Editor	\$19
DM Cartographer	\$15
DM: The CD!	\$14
Hillsfar	\$32
Dragon's Lair	\$39
Dragon's Lair II	\$39
Crystals of Arobres	\$39
Bloodwych	\$39
Bloodwych Data Disk	\$19

**VIRTUAL
REALITY GAMES**

Midwinter II	\$39
Virtual Anthology I	\$39
Driller, Total Eclipse,	
Castle Master, The Crypt	
Virtual Anthology II	\$45
Starglider II, Carrier Comm.	
Midwinter, International	
Soccer Challenge, Stunt	
Car Racer. COOL!	
3D Construction Kit	\$59

NEW GAMES

Switchblade II	\$39
Maupiti Island	\$42
A.P.B.	\$32
Darkman	\$39
Sarakon	\$39
Predator II	\$39
Shadow Dancer	\$39
Lords of Chaos	\$39
TOKI	\$39
Railroad Tycoon	\$42
The Ball Game	\$39
Champion of the Raj	\$39
DISC	\$39

**MORE NEW
GAMES? DUDE!**

Stormball	\$39
Premier Coll. #2	\$39
Tusker, 1K+, Ninja Remix	
Flimbo's Quest	
Galactic Empire	\$39
England Soccer	\$39
War Zone	\$39
Rainbow Collection	\$29
New Zealand Story,	
Rainbow Islands, Bubble	
Bobble. Great Collection!	
Int'l Champ. Athletics	\$39
Space Ace	\$39
Frenetic	\$39
Space Quest I, II, or III	\$39
Eco Phantoms	\$39
Germ Crazy	\$39
Lemmings	\$35
Ultima V	\$41
M1 Tank Platoon	\$43
Full Count Baseball	\$29
Hard Drivin'	\$28
Hard Drivin' II	\$39
STOS: Game Creator	\$39
Empire	\$34

GAMES

CURRENT NOTES

Your Monitor on the World of Atari

The magazine for Atari owners. Without hype or gloss, each convenient, concise issue gives you:

Regular CN Features:

- "ST Update" - by Frank Sommers, ST Editor (Latest ST/Mega News)
- "Eight-Bit Alchemist" - by Ben Poehland, XE/XL Editor (News and Tips for 8-bit Owners)
- "Small World" - by Dave Small (Computer stories by the inventor of the Mac emulator for the ST)
- "Myths and Mysteries" - by Dave Troy (Atari mysteries explained by the owner of TOAD Computers)
- "ST Toolbox" - by J.Andrzej Wrotniak (Hints and advice for Atari programmers by the author of *El-Cal* and *Star Base*)
- "Junkyard Pussycat" - by John Barnes (Comments on the world of Atari computing)
- "Starting Block" - by Richard Gunter (For the beginner, hints to help you get off to a good start)

+ Feature Articles, Product Reviews, and Advertisements!

Current Notes, 122 N. Johnson Road, Sterling, VA 22170

SPECIAL!! *Summer* Subscription Offer

Yes! Please start my subscription to *CN* for a period of
1 year (\$27) [], 2 years (\$47) []. Start with the May, Jun, Jul/Aug, Sep issue (circle one).

NAME:

ADDRESS:

CITY: ST: ZIP:

PHONE: Type of Atari You Own:

[] Payment Enclosed To subscribe faster using Master Card or VISA, call (703) 450-4761.

[] Master Card Credit Card Number:

[] VISA Expiration Date: Signature:

Note: Offer expires 1 October 1991.

Current Notes' subscriptions are \$27/year (\$47 for 2 yrs). **SAVE 1/3** off the newstand price (SAVE 40% for 2-yr) by subscribing. Canadian subscriptions are \$35/yr (\$63/2 yrs). Other surface rate foreign subscriptions are \$44/yr (\$80/2 yrs).

AIR MAIL RATES: Canada/Mexico, \$44; Cen Amer, Caribbean, \$57; S. America, Europe, N. Africa, \$69. Other Africa, Mid East, Asia, Australia, \$80/year. Foreign subscriptions are payable in US dollars (\$) drawn on a US bank (or via VISA or MasterCard). Send check, payable to *Current Notes*, to the address below:

CN PD/shareware disks are available on SyQuest 44 MB removable cartridges which hold about 100 floppy disks. Three cartridges are available:

- Cart 1: 112 Disks (CN #347 - #459) July '89 to June '90.
- Cart 2: The Spectre Collection (CN Macintosh-compatible Spectre disks #S01 - #S80).
- Cart 3: 95 disks (CN #460 - #554) July '90 to April '91.

CN cartridges are \$119.95 each (plus \$4 S&H).

Keep up with all the latest Atari news.

Subscribe to *Current Notes* today!

• The latest information!

Knowledge is power, isn't it?! Get the *latest* information - and use your computer more *powerfully* than ever before!

• The newest products reviewed and advertised!

Hardware, accessories, programs, views and more from developers and everyday users covering all the *latest* and *greatest* goodies!

• Tips and Solutions!

Effective and efficient ways to get the *most* from your Atari!

FREE PD DISK with your CN subscription
(2 Free Disks with 2-Yr Sub). Coupon and catalog sent with receipt of subscription form.

Current Notes Inc.

122 N. Johnson Road

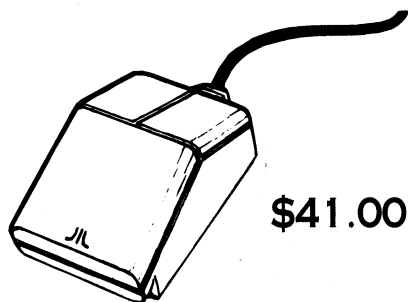
Sterling, VA 22170

(703) 450-4761

CN is published 10 times a year (monthly except for January/February and July/August combined issues). In addition to 84 pages of Atari news, reviews and tutorials, CN introduces 10 or more ST disks (5 or more Spectre [for Macintosh-compatible Atari's] disks as well) with each issue.

CN disks are \$4 each (10 for \$35) plus \$1 for every 4 disks for shipping and handling (maximum charge of \$6 for S&H).

M I C E



\$41.00

NOT JUST RODENTS.

The Beetle Mouse

☛ If you're tired of the same old library-paste colored mice and want something **high-resolution (320 dpi), high-quality, lightweight, and downright colorful**, the **Beetle Mouse** is the one for you. It uses **great microswitches**, so clicking is easy and quick. They're high resolution — so you don't have to spend a weekend moving your mouse pointer to the other side of the screen. And they come in a variety of fashionable and unfashionable colors. Here's the list: red buttons (no offense to Red Buttons) and black top (not pavement), red top and black buttons, white buttons and grey top, black buttons with blue top (my choice), blue buttons with canary yellow top, white buttons with white top (virgin mouse), yellow buttons with red top, grey buttons with white top, black buttons with yellow top, black buttons with black top (stealth mouse). Order your own **toadally** bitchin' mouse **today!**

☛ **Cool Beetle Mouse Deal — Two For \$90!**

GOLDENIMAGE



☛ **Golden Image Technology** is a manufacturer of high quality controllers and peripherals for **Atari** computers. They make several kinds of mice. One is their **optical mouse**. It works with a pad, marked with dots. The mouse **sees** how many dots it's passed over, and then reflects that movement on screen. This means there are **no moving parts**, which means less to break. They also make an **optomechanical** mouse, which works just the same as most other mice. The best way to describe this mouse is **substantial**. It's fairly heavy, but registers movements well. It has a resolution of 290 dpi. They also make what they call a **brush mouse**. It's like a ball point pen, with the ball point acting as a mouse ball would. All of these mice come with a **one-year warranty** and are really hot sellers.

Golden Image Optical Mouse — \$69**G.I. Optomechanical Mouse — \$45****Golden Image Brush Mouse — \$49**

Trackball Is Rosetta Stone!

☛ Want to know how to say, "**Amazing response for higher scores in fast-action game play,**" in eight languages? We've got a few of these beautiful trackballs in stock, and this **multi-lingual box** is a great way to translate obscure phrases. Works as a replacement for a joystick. Does not behave like a mouse, but could be modified to. Works on **eight bit or ST**. Order **today!** The CX-80 Trackball. We're not getting any more!

Original Atari Trackball \$9.95!

KRAFT
SYSTEMS INC.

☛ If pushing mice around isn't for you, try an upside down mouse — a trackball. **Kraft Systems** makes a high quality trackball for the **ST** which doesn't require fields to roam in. It sits right next to your computer and only requires about the desk space the size of a postcard. Features a removable ball and three buttons: left and right, plus automatic fire. Also includes a **drag button** which lets you drag items around effortlessly — no worry of releasing your button prematurely.

Kraft Trackball — \$59.95!

Atari Standard Joystick
Only \$7.95! It's Classic!



"The Best"
Trackball

☛ **Best Electronics** makes a **terrific trackball** for the **ST** computers. It features **200 DPI** resolution, plus a locking ring around the ball for easy cleaning. We also have "The Best" Mouse! It's \$48 if you've decided you're still into mice!

"The Best" Trackball - Only \$52.95!

Wico Command Control Joystick

☛ We here at **Toad Computers** believe that a computer accessory isn't really good unless you can beat it senseless and have it work when you're done. That's what's so great about the **Wico Command Control Joystick**. It's built to withstand living hell. I've had one since I was twelve. And we still use it in the store. They last.

Toad Approved Wico Joystick - Only \$22!

CLIPPINGS & Final Additions

ART SOFTWARE

Cyber Paint	\$46
Deluxe Paint ST	\$89
Spectrum	\$46
Cyber Sculpt	\$59
N-Vision	\$19
Print Master Art Gallery Fantasy	\$14
Print Master Art Library 1	\$4
Print Master Art Library 2	\$4
Print Master Plus	\$29
New Technology Coloring Book	\$9

LEXICOR SOFTWARE

This great new graphics software for the ST & TT is truly resolution independent and creates **astounding** graphics and animations. Check their ads, read the reviews, see the pictures and give us a call. It's all shipping **NOW!**

Rosetta 3D Translator & Viewer	\$89
Chronos Key Frame Animator	\$249
Prism Paint Drawing Program	\$79
Prism Render Graphics Processor	\$89

EDUCATIONAL STUFF

Algebra II	\$9
Biology	\$9
Discrete Math	\$19
Magical Anagrams Bentley Bear	\$19
Preschool Kidprogs	\$27
Kidpublisher Professional	\$27

KEYBOARD ADAPTERS

Use an IBM compatible keyboard and bar code reader on your ST! These two products are great!

Z-KEYS Installs Internally	\$89
D.E.K.A. External Box	\$89

CODEHEAD SOFTWARE

Lookit & Popit	\$29
Maxi File	\$29
Codekeys The Macro Tool	\$29
Codehead Utilities	\$24
G+Plus GDOS Replacement	\$24
Hotwire	\$29
Hotwire Plus	\$46

LANGUAGES

ICD OSS Personal Pascal	\$69
Prospero C	\$89
Prospero Fortran	\$89
Prospero Pascal	\$89
Prospero Developer's Toolkit	\$59
GPA Basic 3.5 & Compiler	\$99
GPA Basic 3.5E Upgrade Kit	\$44
Megamax Laser C	\$109
Megamax Laser DB	\$49
See ST Soft Section Here for More Languages.	

FUNKY TERMINALS

ST VT100 Terminal Emulator Cart	\$7
Fastcom 2 Terminal Program	\$69
Ansigraf	\$9
G.I.M.E. Terminal (New & EASY)	\$45
G.I.M.E. BBS System (Soon)	Call

WEIRD STUFF

HABA Home Accountant	\$22
STOS Compiler	\$19
Crystal	\$6
Plotter And Printer Drivers	\$3
CAD-3D Font Package	\$19
Future Design Disk	\$2
TCI Power	\$19
The Desk Calc!	\$19
Menu Plus	\$3
Kissed	\$9
M-Disk	\$9
M-Copy	\$9
The Animator	\$9
Abbreviator St Ver.1.1	\$5

EGADS, A NETWORK

Application & Design Software, the folks that brought us **Universal Item Selector** know how some nice network software which will allow STs to share hard drives and printers. Very nice. Works with MIDI Net (3K/sec), LAN Tech (20-25K/sec) and Mega STE/TT LAN Port (18K/sec). You're too close to press time to get full details, but call and we'll give you more information. Estimated cost \$120-\$130 per machine in your network.

MULTIGEM - WHAT?

Multigem is a new program from Germany that allows multiple GEM programs to be loaded simultaneously, and sorta-kinda does multitasking. Most useful for switching between programs without having to go back to the desktop. It does not, for instance, allow background file transfers but does let you use PageStream and Word Writer simultaneously, load six programs at once.

MUSIC SOFTWARE

Copyist I (Apprentice)	\$89
Copyist II (Professional)	\$149
Copyist III (BTP Professional)	\$219
Edit Track II	\$59
EZ-Score Plus	\$89
FM Melody Maker	\$89
Genpatch ST	\$49
Notator 2.0	\$639
TCB Tracker	\$49

DIGITIZERS

Replay 4 (Sound Digitizer Cartridge)	\$89
Replay 8 (Includes More Software)	\$114
Replay Stereo	\$155
Vidi ST (Video Digitizer)	\$129
Vidi ST RGB Splitter	\$99
Vidi-Chrome Software & Color Filters	\$39
Vidi RGB/Vidi Adapter	\$39
Complete Vidi (All Vidi Above & Spectrum)	\$259

PHOTO DATABASES

Informer II Data & Images 2.03	\$69
SuperBase Professional	\$199

Both of these databases allow linkage of IMG image files to data records. This is an extremely useful feature. Superbase Professional is used by missing children networks to keep track of photos of lost children. Could be used for coin collections, etc. See our DATABASES section elsewhere in this catalog.

EUROPEAN MAGAZINES

Check these mags out. Get a one year subscription for only **\$129**, or you buy a single issue for \$9 for inclusion with your subscription. These magazines use full color on just about every page. They don't come with them, use glossy, thick paper, and are well over a pound each. Well worth your time and money. And our subscription is **extra convenient!**

ST Format (With Disk), Art & Games
 (With Disk), Games
 ST Games (With Disk)
 Art & Games (With Disk), Art & Games

TYPE ONE FONTS

We'll be carrying a complete line of PostScript Type 1 fonts for use with PageStream. That includes selections from the **Adobe Type Library** as well as from the **Image Club** font collection. Call for more information on our type endeavors.

U.S. MAGAZINES

We carry the following American magazines. Foreign and American customers should consider adding these magazines to their orders if they cannot obtain them locally. They all are quite good.

Current Notes	\$3.95
Inform	\$3.00
Artari Interface Magazine	\$2.95
ArtariUser	Free

DOUBLE CLICK SW

DC Shower (File Utility)	\$24
DC Data Diet	\$39
DC Desktop	\$27
DC Utilities Version 2.0	\$27
DC Game Workbench (Soon)	Call

ST HYPERCARD?

HyperLINK ST from JMG software is a Hypertext environment that is comparable to Hypercard on the Macintosh. Text, graphics, sound, speech, and animation are no problem — and modules can be run simultaneously. Call or write for more info. **\$139!**

HISOFT SOFTWARE

DevPac ST (Assembler, Linker Etc.)	\$79
DevPac TT (68030 & 68882 Version)	\$189
Lattice C (Version 5)	\$189
Hisoft C (Interpreter)	\$74
HighSpeed Pascal, Turbo Pascal Comp.	\$139
Hisoft Knife ST (File Utility)	\$43
Harlekin (WP, notebook, terminal, etc.)	\$69
ProFlight (Tornado Flight Simulator)	\$52

GENLOCK TOO? WOW!

JRI STE Genlock System	Call
JRI Mega ST Genlock Super System	\$699
JRI Mega ST Genlock Regular System	\$599

DMA ACCESSORIES

DMA Switchbox	\$59
DMA 48" Cable (May not always work)	\$29
ICD DMA Cable (Should always work)	\$19
SCSI Switchbox (2 Computers 1 HD)	\$59

Like Cooking? Try Our Recipes!

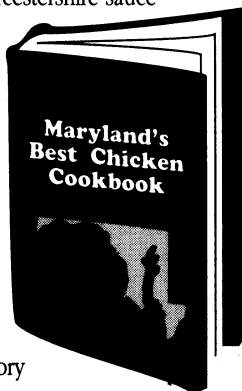
Long before this catalog was on paper at all, Jennifer and I decided that if it was possible, we'd really like to include some recipes; and we like the idea so much that we're going to make it a regular feature. So if you've got some good recipes you're dying to share with us, FAX them to us. Heck, everybody has to eat, right?

DAVE'S GRANDMOTHER HUMPHREYS' SALMON PARTY BALL

- 1 tall can red salmon
- 1 8oz. pkg. light cream cheese
- 1 tbsp. chooped onions
- 1 tsp. worcestshire sauce
- 1/2 tsp. liquid smoke
- 1 small pkg. chopped pecans

Debone salmon. Mix cream cheese, onions, worcestshire sauce, and liquid smoke by hand. Mold into ball. Roll in chopped pecans. Chill. Serve with mild crackers.

My Mother submitted this recipe for my Grandmother, Lydia Humphreys, who died from lung cancer in 1988. Nobody loved cooking and food more than she – and you can get a great taste of her gustatory skill with this simple, original recipe.



PERFECT PEACH (OR BLACKBERRY) COBBLER

GIVEN BY LIBBY MITCHELL, RAY'S MOM

- 3 cups sliced peaches (or blackberries)
- 1 tbsp. lemon juice
- 1 cup self rising flour
- 1 cup sugar
- 1 egg beaten
- 6 tbsp. melted butter

Combine peaches (Ray prefers blackberries) with lemon juice and layer bottom of cobbler pan. In bowl mix flour with sugar. Add in the beaten egg. Put all this on top the fruit. (Ray picks blackberries that grow on top large red ant hills at his grandparents' farm in South Carolina.) Sprinkle the melted butter on top. (If the drive to SC is too far or it's not berry hunting season, frozen berries will do fine.) Bake at 350 for 35-40 min.

BISHOP'S BREAD

DIVULGED BY DR. JOANNE BURNS, LONG-TIME ATARI OWNER

Mix together in bowl:

- 2 cups walnuts
- 1 cups chocolate chips
- 1 1/2 cups flour
- 1 1/2 tsp. baking powder
- 1/4 tsp. salt

Mix together in another bowl:

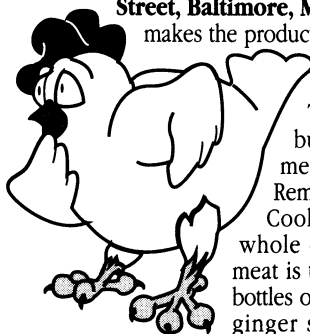
- 3 eggs
- 1 cup granulated sugar
- 10-16 maraschino cherries, chopped

Add in flour mixture to eggs, sugar and cherries. Mix well. Bake in large greased and floured pan at 325 for 1 - 1 1/2 hours.

MR. TROTTER'S SAUERBRATEN & DUMPLINGS

GIVEN TO US BY JOHN TROTTER, JENNIFER'S GRANDFATHER

YUM! It's sauerbraten from Germany where 25% of home computers are Atari! "It takes some intuitive cooking skills to have Sauerbraten reach its full power," Mr. Trotter explained. It can be done, though. Just be sure to taste as you go along and check consistency. This recipe does require a certain magical liquid called **Mrs. Mimick's Sour Beef Mix**. And we aren't sure it's available in all parts of the developed world. But don't be scared! We have included the address the of a possible source, because you really should try Mr. Trotter's sauerbraten! Write to: **Products of Distinction, 2222 Aisquith Street, Baltimore, MD 21218**. Using this mixture actually



makes the production a little simpler than most standard Sauerbraten recipes. But Mr. Trotter uses it because it tastes the best.

There are instructions on the bottle but you'd do well to use Mr. Trotter's method: Use 2 to 4 lbs. shoulder beef. Remove the fat and bone before cooking. Cook the meat in *Mrs. Mimick's* with 1 whole onion for 1 1/2 to 2 hours or until meat is tender. This should take about 1 1/2 bottles of *Mrs. Mimick's*. When done crush 6-8 ginger snaps between two pieces of wax paper with a rolling pin, and add to gravy until desired thickness is reached. If it's too sweet, add 1/4 cup or more vinegar. For sweetness add sugar incrementally and to taste.

POTATO DUMPLINGS

- 3 cups riced potatoes
- 1 or 2 eggs beaten
- 1/4 tsp. white pepper
- 1/4 tsp. monosodium glutamate
- 1/2 tsp. salt
- 1/8 tsp. onions salt
- 1 cup dry bread crumbs. Check consistency.

Boil potatoes. Then peel and put through ricer or coarse sieve. Add egg, bread crumbs, onions, salt, pepper, monosodium glutamate and salt, mixing well. Add 3 to 4 tbsp. flour to potato mixture until the consistency is that of dough but not sticky. Roll into 1 1/2 in. balls. Gently drop into rapidly boiling salt water. Cook 8 minutes or until dumplings change in appearance and begin to look fluffy.

SAUERKRAUT SALAD

DIVULGED BY BETSY RUCKER, JENNIFER'S MOM

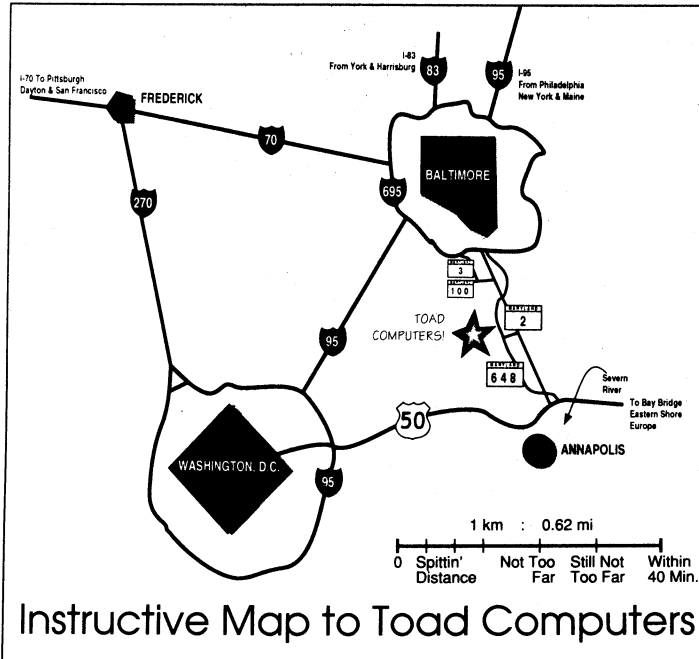
There's no getting around the fact that this stuff sounds weird. But it's good. Trust me. I ate it.

- 1 can sauerkraut
- 1 cup sugar
- 1 large pepper, chopped
- 1 medium onion, chopped
- 1 jar pimientos
- 9 green olives, sliced
- 1/2 cup vinegar
- 1/2 cup oil

Combine together in a large serving dish and chill. Serve cold. This stuff really is pretty good. Yes, the recipe *really* does call for precisely nine olives. Don't mess with this either – it's delicate.

Finding Toad Computers

(301) 544-6943 Directions



How to Visit Toad Computers

☛ Visiting our beautiful post-modern art-deco neo-classical storefront facility is easy and fun if you just have some good directions! We're centrally located between Baltimore, Washington, and Annapolis, and we're also just about halfway between San Francisco and London! Here are some easy to follow directions that no one can screw up!

From Washington: Take US 50 (New York Avenue) East to Annapolis. Get onto Maryland 2 immediately after crossing the Severn river bridge. Then follow directions from Annapolis.

From Baltimore: Take I-695 South, the Baltimore Beltway. Take Maryland 3 South. Take Maryland 100 East towards Gibson Island. Take Maryland 2 South towards Annapolis. Go about four miles. Turn right on Maryland 648, Baltimore Annapolis Boulevard. Go 1/4 mile and we'll be on your right.

From Annapolis: Take Maryland 2 North. After a few miles, turn left at traffic light at McKinsey Road. Go to the first light. Turn right. We'll be about 200 feet on your left.

From Frederick: Take I-70 to I-695. Follow directions from Baltimore. Trust us, this is fastest.



A Brief History!

☛ Toad Computers was started in 1986 by us couple of punks, Dave and Ray. We got our architecturally significant storefront in June, 1988 and things haven't been the same since. Success is something we've always chased, and not too infrequently we pounce on its tail and have a nice solid taste of it. So we're still around, still happy, and we'll be around for a good while longer. If you're ever in the area, stop by our amazing store! We'll probably have something you've never seen before. And you'll probably get to meet Jennifer, too!

Our Friendly Store Hours

Monday Through Friday: 10:30am – 7:00pm

Saturday: 10:30am – 6:00pm

Call For Hours on Sundays Near Christmas!

Special Appointments Can be Made for Visitors.



(800) 448-TOAD!

Ordering Is Fun!

POLICIES

Credit Cards: Individual items over \$300 will have a 4% fee assessed when a credit card is used for payment. We accept Visa, Mastercard, and Discover.

Shipping: Within the 48 states: \$3.00 for orders under \$100, \$5.00 for orders over \$100, hard drive orders ship FREE. Persons outside the 48 states must call to confirm shipping price. **COD Charge is \$3.75.**

Returns: We will replace defective merchandise in accordance with its warranty. Returns of working product are subject to a 10% restocking fee, subtle negotiation, and unpleasant sneers. Returns of product, defective or otherwise, **must** be accompanied by complete original packaging, a copy of your original receipt, and a can of Del Monte pears. We'd like it if you'd call before returning anything, too. We might have some alternatives for you.

Turnaround Time: Orders are shipped as soon as possible or sooner. After mailing an order, wait about ten days before becoming hysterical. It really will come.



Name _____ Customer Number _____

Shipping Address _____ City _____

State _____ Zipcode _____ Day Phone _____ Evening Phone _____

Credit Card Number (If Applicable) _____ Expiration Date _____

License Plate Number _____ Social Security # _____ Dog's Name _____

We'll Keep You on Our Mailing List, but Unless We Hear from You, You May not Receive Any More Mailings!



028012 E

**E is for
EXPIRE.
We need
to hear
from you
to keep you
on our list!**

**Your Customer
Number. Makes
Finding You Fast & Easy!**

MAILING LIST

"You Name It, It's In Here"

Inside our **toadally cool, 5-year Silicon Anniversary Catalog** you'll find everything from desktop publishing programs to videogames. And it's all reasonably priced, too! Just about anything you need for your Atari is either in here or in serious danger of being caught for next time.

The WAACE AtariFest

Find out about the largest and best Atari show held on the east coast. It's coming up, and it's sooner than you think. Check the **inside front cover** for more information. October 12 & 13, 1991 — Reston, VA

Only Current Notes

Only Current Notes, now the country's **oldest** Atari magazine, is the only reliable Atari magazine that provides decent perspectives and insightful articles. Tired of whiners who don't actually accomplish anything? Try Current Notes. Since 1980, it's been **The Monitor on the World of Atari**.

See their full-page ad inside.

Quality Companies

Quality companies are hard to find, but we've got ads from **three** of them. Check them out. We've got **Gadgets By Small**, **Gribbit Software**, and **ISD Marketing**. Thank them for advertising — buy their products from us **today!**

- Atari Computers: Eight Bit, ST, STE and TT030!
- Monitors: ST, Eight Bit, and TT!
- Desktop Publishing Software: **EVERYTHING!**
- Printers: Laser & Dot Matrix!
- Word Processing Packages: We've Got Seven!
- Database Management Systems: Three Kinds!
- Modems: 1200, 2400, and 9600 Baud!
- RAM Upgrades: For Every ST & TT Computer!
- Accelerators: 16 MHz 68000's!
- IBM and Macintosh Emulators!
- Spreadsheets and Accounting Software!
- Atari Eight Bit Peripherals and Software!
- How to Repair Your Computer!
- Portfolio and Lynx Products
- Sneak Previews of New Computers
- The Amphibian Hard Disk Primer
- Hard Drive Systems & Components
- Disks, Paper & Supplies
- Controllers: Mice, Joysticks and Trackballs!
- Multitasking, Music Software and Languages
- European Magazines: Subscriptions Too!
- Games, Gadgets, Digitizers and Leisure Devices
- Recipes From Various Members of the Toad Gang
- A Brief History of Toad Computers
- All the New and Exciting, Up and Coming Products!
- Plus Tons of Other Stuff Too Banal to Mention Here!



Toad Computers

556 Baltimore Annapolis Blvd.
Severna Park, MD 21146-3818

Bulk Rate
U.S. Postage
PAID
Permit #28
Severna Park, MD

D



If You Don't Consume,
Recycling Is Unnecessary.

AUTHORIZED
ATARI
SERVICE CENTER